

THE INVESTIGATION OF NEW METHODS FOR THE DETECTION AND
IDENTIFICATION OF SURFACE, NEAR SUB-SURFACE OR
CONCEALED OBJECTS USING CHEMILUMINESCENT
AND ELECTROPHOTOGRAPHIC TECHNIQUES

Technical Paper

Prepared by

MANKIND RESEARCH UNLIMITED, INC.
1050 31st Street, N.W.
Washington, D.C. 20007

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ABSTRACT

This paper describes a specific innovative method for the detection, analysis, and identification of objects which may be either visible, buried, or otherwise concealed. The method proposed by Mankind Research Unlimited, Inc. is primarily based on recent Soviet research and applications in the fields of chemiluminescence, electrophotography, and plasma physics. Some specific applications of these techniques would include detection of concealed weapons, locating mines and other hidden explosives, rapid and inexpensive locating and recovering of minerals and ores, and spectroscopic or diagnostic analysis of inanimate or animate objects. If the approach and techniques cited in this paper are of interest to the recipient agency's needs or requirements, Mankind Research Unlimited, Inc. will prepare a detailed technical proposal for a program that will define methods and techniques to satisfy specific requirements of that agency.

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I. INTRODUCTION

New and innovative means for the detection and identification of inanimate objects on, or buried close to, the surface of the ground or carried covertly by individuals such as plane "skyjackers" have been developed by Soviet researchers.

These methods primarily use new findings in chemiluminescence and electrophotography. They could be applied to such problems as locating and recovering mineral ores, detecting mines or hidden explosives, exposing concealed weapons and as an aid in the absorption spectroscopy of solids for analysis purposes.

If the subject as outlined herein is of interest and satisfactory for a sponsor's requirements, Mankind Research Unlimited (MRU) will prepare a detailed technical proposal for a program to meet that sponsor's specific needs.

II. BACKGROUND

Considerable study has been made over recent years, principally by Soviet researchers, on chemical luminescent phenomena at the sub-molecular (electron) level and on ultra-weak luminescence in chemical systems.¹ Mankind Research Unlimited has received, during the past year, various unpublished Soviet papers confirming that Russian research in these areas proceeds ahead.

Soviet interest in the field of electrophotography dates back to at least 1898 when an electrical engineer researcher, Yakov Narkevich-Iodko, displayed electrographic photos taken with the assistance of "quiet" electrical discharges. Such discharges, which result from an accumulation of atmospheric electricity on the surfaces of objects thereby producing luminescent effects, are referred to as "St. Elmo's Fire."

¹See, for instance, Ultra-weak Luminescence Accompanying Biochemical Reactions by Y. A. Vladimirov of the USSR Academy of Sciences, Moscow, 1966 and Synchrotron Radiation by A. A. Sokolov and I. M. Ternov, Akademie Verlag, Berlin, 1968.

In 1949, Professor Georgy Spivak of Moscow University obtained on film electrographic images which were distinguished by their sharp quality and clarity. Spivak concluded that certain objects, when photographed within a "corona," showed especially strong radiation patterns and consequently presented highly defined points, edges, and angles of the object's form on a photographic plate.

From 1950 to the present, Semyon and Valentina Kirlian, working in the southern Russian city of Krasnodar, employed artificially produced high-frequency current to obtain electrographic images which thus permitted analysis of the resulting luminescence of objects, both animate and inanimate, in an electrical field. Briefly stated, this technique now referred to as the "Kirlian effect," involves the production of electrographic imagery of cold plasma or auto-electronic emissions which are extracted from objects by the application of a high-frequency electric field. The discharge creates an ultra-weak luminescence which, when photographed under polarized light with photomultipliers, reveals the excitation status of an object. Photographic, microscopic, or ultra-violet examination of the relative magnitude of the free electron discharge from these objects (as well as visual analysis of the resulting luminescence and characteristic color as shown on the film) allows the examiner to define the form, structure, and identity of the object.

It has been reported that Kirlian-type photographs made of objects which are conductors reveal only the surface form or outline of the object. However, in the case of dielectrics (non-conductors), the photographs showed the internal structure of the objects, even in the case of optically opaque objects. It was further reported that the "electrical" image for a dielectric object approximated in many respects the optical image of that object.¹

The Soviet metallurgists Mikhalevskii and Frantov have applied this technique to locating and recovering mineral ores ranging from high-conducting sulfide minerals to low-conducting silicates. The principle underlying the ore recovery process is evolved from the diversity of electrical conductivities encountered in minerals.

¹The so-called "Kirlian effect" as described here has been reproduced in the U.S. at laboratories of the Mankind Research Unlimited consultant staff. The results obtained to date have verified in most instances the Russian reports of this application as an analytical-diagnostic tool of both animate and inanimate objects.

The metallurgists reported that "the method of S. & V. Kirlian can be used to investigate inanimate objects electrophotographically which constitutes a new field of application for this method."¹

The success of such methods is due primarily to the sensitivity of crystals to electro-magnetic waves and of the influence of electro-static fields on crystals, known as the Kerr-effect. These actions result in internal changes in the space-lattice structure of crystals and if externally stimulated or "excited", this results in movement of electrically charged particles away from the crystals (electrophoresis). According to the Dutch physicist, Professor S. W. Tromp, the luminescence phenomena specifically demonstrates the sensitivity of crystals to electro-magnetic waves.²

Tromp in his further research of this phenomena identifies four types of luminescence:

- (1) photo-luminescence (phosphorescence and fluorescence respectively, i.e., emission of light due to previous irradiation of crystals with light waves. In the case of fluorescence, this occurs only as long as the irradiation takes place. In case of phosphorescence it persists after the exciting source is shut-off.
- (2) electro-luminescence
- (3) thermo-luminescence, and
- (4) tribo-luminescence

The latter three occur in an electric field as a result of the heating or breaking of crystals.

According to Stoke's law, the wavelength of light emitted by a fluorescent substance is usually greater than that of the exciting radiation. However, there are exceptions. The phenomenon encountered is due to primary absorption of electro-magnetic energy by the atoms or molecules of the crystal space-lattices, thus raising the physical state of the atom and effecting a secondary

¹V. I. Mikhalevskii and G. S. Frantov, Photographing Surfaces of Metal Ores by Means of High-Frequency Currents, Russian Journal of Scientific and Applied Photography and Cinematography, Vol. II, No. 5, pp. 380-381, 1966.

²S. W. Tromp, Psychical Physics, Elsevier Press, Amsterdam, 1949, p. 29.

release of part of this energy. Since the released energy is less than the absorbed quantity, the emission energy must be lower and the wavelength greater. The effects of this phenomena are particularly evident when objects are irradiated with X-Rays or ultraviolet light, but such effects are not apparent when irradiated with infrared. In cases where the atoms or molecules of an object possess a surplus of energy, Stoke's Law does not work and the so-called "Raman effect" applies.

The "Raman effect", as interpreted from Tromp's work,¹ is a resonance (vibratory) effect occurring at fairly constant points on the frequency spectrum for each substance or object. It is particularly evident when homogeneous light waves pass through a liquid. Part of these waves are transformed into waves with smaller or greater wavelength, creating a spectrum with different bands. This "Raman effect" originates when electromagnetic light waves strike atoms or molecules of an object and the observed wavelength does not correspond with the one required for bringing an electron to a higher energetic level. The light waves are not absorbed in this case but dispersed, part of the energy being used for increased rotation and vibration of the molecules.

Further clarification of the nature of the luminescent phenomena and the basis for the electrophotographic process is beyond the scope of this paper but can be further spelled out in greater detail if requested by the sponsor.

¹S. W. Tromp, Psychical Physics, Elsevier Press, Amsterdam, 1949, p. 102.

III. INVESTIGATIVE APPROACH

Mankind Research Unlimited, Inc. is prepared to conduct a six months study for the sponsor to investigate new and innovative approaches, based on chemiluminescent and electrophotographic techniques, to detect and identify objects, which may be either, visible yet not readily identifiable; buried, or otherwise concealed. The study would encompass:

a) A Review of Currently Available Techniques.

Mankind Research Unlimited is thoroughly familiar with the devices and techniques currently used in electrophotography, and photoluminescence. Additionally, MRU is experienced in related areas which include infrared (IR) searchlight and image converters, night vision and thermal-imaging devices, low-light-level television (LLTV), microwave generators and radiators (i.e., radars, UHF transmitters, etc.), television and still or motion picture film cameras. Given this background, MRU can ensure that full and detailed consideration is devoted to those currently available techniques. Where applicable, these can be integrated, with a minimum of effort and cost into any new techniques generated by MRU.

b) Investigation of Chemiluminescent and Electrophotographic Techniques.

The investigation of chemiluminescent and electrophotographic techniques will be keyed to the application of these techniques as defined by the sponsor. The investigations will take place at laboratories available to MRU which are fully equipped for electro-magnetic and electro-static field research, photo- and electro-luminescent research, and electro-photography. These laboratories are located in Bethesda, Maryland; Paterson, and Hoboken, New Jersey; Los Altos, Mountain View, and Los Angeles, California; and Albuquerque, New Mexico. Techniques that appear worth investigating from Eastern and Western Europe will be thoroughly reviewed, replicated, and evaluated in designated laboratories with results of each laboratory's evaluation cross-checked and contrasted against the others.

An additional feature of this investigation will be to introduce and compare the process developed by the Research Institute, Inc. of Salt Lake City, Utah, to recover minerals from low grade ore by high energy bombardment. Details on this process have been made available to MRU by the Institute's Director, Mr. John E. Moray. Preliminary analysis made by MRU of the ore recovery process as proposed by Mikhalevskii and Frantov show similarities to that developed by Moray.

Those techniques investigated during this effort that show promise of satisfying a specific need of the sponsor will be highlighted. A prime objective of this effort will be to fully validate those techniques so highlighted and judged to be worthy of further experimental verification prior to application to a specific problem area.

c) MRU Data Bank Material.

MRU consultants and representatives have collected unique source data from laboratories in both Eastern and Western Europe where extensive experiments have been carried out using electrophotography to document the effects of luminescence and the behavior of matter in high energy fields. Much of the material is in Russian and Czech with indications that some of it is unique and not otherwise available (insofar as is known) in respect to U.S. Government or industrial data banks.

The staff of Mankind Research Unlimited, Inc. and its technical consultants have made a broad study of luminescent and electrophotography techniques inclusive of their applications in both the United States and in European countries. Several of our consultants have used these techniques in their professional work. Although a portion of the data collected by MRU in this area has come from unpublished sources, our technical review and preliminary testing indicate that the data could be feasibly applied to the tasks described in Section I. This conclusion stems from a review of unpublished material in the MRU Data Bank by Soviet plasma physicists V. Adamenko, V. M. Inyushin, and B. A. Dombrovski who postulate that, by using concepts of plasmic states of matter in conjunction with the methods devised by the Kirlians, new horizons of research are opened up in respect to determining the electrical condition and status of both animate and inanimate objects.

d) New System Concepts Development.

After the first three tasks have been completed, new system concepts will then be developed for application to the sponsor's specific problems. Each of the available system concepts will be analyzed in terms of the environmental situation in which it will be employed. Emphasis will be on those systems which can be produced or developed within a minimum of time. Maximum utilization will be made of foreign research material within the MRU data bank in respect to designating new and unique system concepts.

IV. REPORTS

a) Technical Reports

Two separate reports will be delivered during the period of the work effort. The first report will present the results of the investigation and discuss the feasibility of these techniques in an applied sense. The second will describe in detail those new system concepts designated and which can be developed for application to specific situations.

MEASURING, SELECTING AND TRAINING FOR
UNIQUE/SPECIAL PERFORMANCE CAPABILITY REQUIREMENTS

Technical Paper

Prepared by

MANKIND RESEARCH UNLIMITED, INC.
1050 31st Street, N.W.
Washington, D.C. 20007

31 March 1972.

ABSTRACT

This paper outlines specific innovative methods and describes an approach for the measurement and classification of individual potential so that a taxonomy or assessment of human ability may be determined and achieved on a completely impersonal, quantitative, and reproducible basis. Additionally, it discusses certain techniques which can improve human performance capability by enhancing an individual's sensory and perceptual processes. If the approach and techniques described here are of interest to the recipient agency's needs or requirements, Mankind Research Unlimited Inc., will prepare a detailed technical proposal for a program that will define methods and techniques to satisfy specific requirements of that agency.

I. INTRODUCTION

In today's rapidly changing culture, many organizations are discovering, to their expense, that available procedures for selecting and training personnel are inadequate. Current tried-and-true techniques often do not measure up to matching unique capabilities with tasks at hand. Talented individuals are misassigned, training programs misdirected and human potential wasted.

Psychological testing, both oral and written, and, where germane, examination of physical health and prowess, although seemingly adequate for general screening or gross categorization, have been recognized as far from fool-proof. Faced with real-life problems and environments of stress -- perceived as hostile -- or emergency situations, individuals do not always respond and react as predicted by available testing methods.

Modern management, increasingly aware that each individual, associated with its enterprise and goals, is less a cog in a machine and more a cell in a living organism, is seeking to avoid the pitfalls of plugging square pegs into round holes.

Mankind Research Unlimited Inc., can propose a new approach to assessment and training wherein individual potentialities may be determined more accurately than heretofore. Moreover, we believe this can be done on an impartial reproducible basis with elimination of irrelevant personal factors.

This new approach is well adapted to the selection of applicants seeking to become policemen, firemen, covert or clandestine agents, military and civilian pilots, astronauts, combat commanders, infantry scouts and point men and emergency crews of all types, as well as chief negotiators and policy-makers involved in sensitive problems, both foreign and domestic. It would also apply to the selection of persons for many other specialized occupations or positions.

If, as described here, this approach is of interest to an organization's or agency's needs and requirements, MRU Inc. can design and develop a detailed program to meet them, taking into account the need to identify and improve specific human performance capability and the enhancement of sensory and perceptual processes in each individual.

II. SPECIFIC AREAS OF APPLICATION AND OBJECTIVES

Recent psychotechnological devices and techniques which have been developed by, or are available to Mankind Research Unlimited (MRU), may further enhance and complement this process of enhancing human capabilities. Although some of these techniques have been available for several years, little if any application has been made of them in respect to benefitting mankind. Therefore MRU, a leader in the field of mankind research, is the first organization known to study the applications of these techniques to specific human-oriented problems.

This new approach, as pioneered by MRU, would apply specifically to:

- (a) rapidly screening personnel for mental, emotional, and stress stability.
- (b) optimizing selection of personnel for employment requiring high and sustained degrees of perception, alertness or vigilance. (Examples: test pilots, flight personnel, astronauts, "point-men" or scouts on combat and reconnaissance patrols for the detection of snipers and concealed weapons or booby traps and explosive devices, clandestine (covert) agents and intelligence operatives.
- (c) identifying personnel with special sensory or intuitive decision-making abilities. (Examples: commanders of strategic and tactical forces; key members of space flight teams both on the ground and aloft; chief negotiators and policy-makers involved in sensitive problems, both foreign and domestic; and intelligence analysts.
- (d) assessing the reliability and veracity of interrogated persons or pinpointing potentially dangerous individuals and persons capable of violent and uncontrollable actions.
- (e) selecting psychologically compatible personnel for situations involving close and prolonged association in confined quarters.

Once the task of measuring and evaluating human performance and capabilities has been completed in accord with the needs of the user-agency, a further objective of this approach is the choice among various psychotechnological and biocybernetic techniques best adapted to improving performance and sense perception.

We clearly recognize that, in the present state of psychotechnology, there are already many provocative and suggestive techniques for controlling and influencing human behavior involving neurophysiological, biochemical, psychopharmacological and psychological means.¹ Some of these techniques however, are, at present rather

¹ Dr. Kenneth Clark, Presidential address to the American Psychological Association. Washington, D.C., September 1971.

unpredictable and questionable with respect to controlling human behavior, a good example being the controversial experiments in California which use lobotomy and psychosurgery to effect control and modify behavioral patterns of violent persons.¹ However, MRU's approach involves techniques aimed at maximizing positive behavioral benefits while minimizing potential risk to subjects.

¹"A Clockwork Orange in a California Prison", Science News, Vol. 101, 11 March 1972.

III. MEASURING POTENTIAL OF INDIVIDUALS

Mankind Research Unlimited will first review the user agency's mission and requirements, after which it will determine which of several techniques, best applies to evaluating personnel for specific tasks, taking into account the overall environment in which an individual is to operate.

1. The Burr-Ravitz Technique

Of the techniques to be considered, the first is based on a fundamental law of biophysics, namely, that an electric current flowing along a neural pathway induces a magnetic field at right angles to the flow of current. Electric currents flowing in the body tissues between cell interfaces create micro-magnetic fields that interact with other surrounding structures and effect couplings with other body fields.

This principle has been thoroughly investigated by Burr, Northrop, and Ravitz. Their numerous bioelectrical studies conclusively indicate that polar and potential differences (gradient changes) exist in living systems.¹ Burr also established that the pattern or organization of any biological system is governed by a complex electrodynamic field which is partly determined by its atomic-chemical components and which also determines the behavior and orientation of those components.²

These fields can be electrometrically measured and charted by use of high impedance vacuum tube voltmeters (at least 10 megohms) which draw little or no current from the organism. Gradients in different parts of the body field can thus be measured without interfering with the field. Ravitz has established that various states of mind affect this field and that the cyclical voltage-gradient patterns for normal, stable persons differ markedly from those who are highly neurotic or otherwise psychologically unstable. He also found that the plotted voltage-gradient waveforms reflected periods of maximum and minimal alertness and efficiency. When these cyclical patterns are projected into the future, performance levels of individuals can be predicted.³ Data substantiating the above is available. Drs. Burr and Ravitz have indicated they are available as consultants to MRU for assistance in any application of this technique.

2. Biological Rhythms

The second technique to be considered is related to the biological rhythmic cyclic patterns which have recently been documented in psychiatry and medicine.⁴

¹ L.J. Ravitz, M.D., Electromagnetic Field Monitoring of Changing State-Function, Journal of American Society of Psychosomatic Dentistry and Medicine. Vol. 17, No. 4, 1970.

² H.S. Burr, Ph.D., The Fields of Life, N. Spearman, London (in press).

³ E. W. Russell, The Pentagon Seminar, Office of the Chief of Staff, Department of the Army, 1968.

⁴ Office of Program Planning and Evaluation. National Institute of Mental Health. Biological Rhythms in Psychiatry and Medicine. Public Health Service Publication No. 2038. 1970.

Advances in computer statistical data analysis have revealed that many slow rhythms exist in man, i.e., cycles with long periods and sine wave curves, which may be either diurnal or circadian (nightly or daily), lunar (monthly), seasonal or annual. Until recently only very dramatic alterations in mood and emotional status, such as manic-depressant psychoses, were believed worth recording. Computer analysis of pathological and other medical data has now indicated that the spectrum of biological rhythms is enormous and that normal individuals show rhythmic peaks and troughs in behavioral patterns, body temperature, etc., although each individual and the respective recorded bodily function were not necessarily in phase with each other.

Supplementing voltage-gradient measurements with measurements of changes in temperature, pulse, respiration, skin conductivity, and other functions; biological rhythmic patterns can be established that leave no doubt as to the cyclic intervals, periodicity, and frequency of existing and predicted patterns. Studies conducted by Doctors Franz Halberg and Bernard Glueck have shown that biological rhythm influences behavioral, physical and mental processes, as well as human performance.^{1,2} This has also been confirmed by Soviet studies which are available in the MRU data bank.

In Germany and Japan, safety engineers are applying biorhythm mathematics to determine "maximum potential" and "critical" days for workers involved in hazardous work or operations. In other words, biorhythm mathematical analysis can be used to predict the performance of personnel particularly where their pending assignments involve hazard or high risk.

3. The Kirlian Technique

The third technique employs the Russian concept of examining the human behavior states by measuring changes in electromagnetic energies which in turn relate to the plasmic state of matter. These plasmic states or, as the Russians term them, bioplasmic states, can be recorded and analyzed by the so-called Kirlian technique. Briefly stated, this involves the production of electrographic imagery of the cold plasma or autoelectronic emissions which are extracted from the living organism by the applications of a high-frequency electric field. The resulting discharge from the organism creates an ultra-weak luminescence which, when photographed under polarized light using photomultipliers, shows excitation levels of the human organism. The relative magnitude of the free electron discharge and of the resulting luminescence as well as the characteristic color shown on the film indicate the psychological condition and health of the subject.³

These effects have been reproduced in the U.S. at laboratories of the Mankind Research Unlimited consultant staff and the results obtained to date have verified the Russian reports of this application and use as a diagnostic tool.

¹Glueck, B. C., The Computer as Psychiatric Aid and Research Tool, Mental Health Program Reports - 2, National Institute of Mental Health, PHS Publication 1743. February 1968.

²Halberg, F., Physiologic Considerations Underlying Rhythmometry with Special Reference to Emotional Illness. Cycles Biologiques et Psychiatrie, Paris, 1968.

³Iniushin, V. M., Bioenergetic Problems, Presented at Methodological Scientific Seminar, Alma Ata, 1969.

4. Analysis of Psychophysical Recordings

The fourth technique to be used in the selection and measurement of personnel would be a combination of the recordings of physiological and psychological responses from the individuals tested. These recordings would include data obtained from EKG, EEG, galvanic skin resistance (GSR), and the plethysmograph which is used to measure vasoconstrictions (blood volume changes) in the finger capillary cells. Through analysis of this data, a profile can be developed which would be used, in conjunction with the introspective test results, to identify individuals with special, enhanced, or even sub-standard sensory and perceptual abilities.

Complementing the physiologically-derived data, would be psychological testing data collected through standard ESP test procedures using Zener cards and random numbers. The latter method has been used by the Newark College of Engineering Research Staff to analyze the predictive and decision-making abilities of top executives in companies which showed either significantly high or low profits. A correlate was found to exist between those top executives with high test scores and those companies showing high profits.¹ An important result of this testing was that the profiles developed indicated valid links between high intuition (ESP), dynamic personalities, and effective decision-making.

Supplemental to the method described above would be the use of a recently developed apparatus for measuring electric field radiations from living bodies.² Testing of this device, developed by the Systems Research Laboratories of Dayton, Ohio, is currently being conducted at Mankind Research Unlimited laboratory facilities.

¹ E. Douglas Dean, Research Director, PSI Communications Project, Newark College of Engineering, Applications of Parapsychology. Presented at First Symposium of the American Association For The Advancement of Science. December 1970.

² System Research Laboratories patent #3,555,529 of January 12, 1971 (Apparatus for Measuring Electric Field Radiation from Living Bodies).

IV. IMPROVING HUMAN PERFORMANCE AND CAPABILITIES

1. Autogenic Training

The first technique for improving human performance is autogenic training, which is also known as biofeedback for mind-body self-regulation. For several years human psychophysiological processes have been recorded and analyzed by electro-physiological instrumentation. This led to the discovery that an individual can be trained to see his psychophysiological processes and of his own volition, make adjustments as desired. This is achieved by applying the engineering principle of "feedback" -- the servo-mechanistic principle by which automatic machines are controlled. This is basically a system of psychosomatic self-regulation or autogenic feedback training.

By the use of relatively inexpensive feedback meters and devices, voluntary control can be readily exerted over brainwave patterns, muscle tension, skin resistance, and other highly variable processes. When this technique has been applied to highly trained individuals they have showed marked improvements in creativity, relaxation, perceptibility and overall sensory ability.¹ This technique, therefore, can be used to improve the performance and subjective awareness states of individuals according to the needs of their employment.

2. Biocybernetic Technique

The second technique is based on Eastern European research and the applications of biocybernetic or psycho-cybernetic methods. Psycho-cybernetics as denoted here is based on the concept that the human brain operates like a computer and by use of systems engineering and interdisciplinary scientific collaboration, it has now become possible to take advantage of the latent ability of the human brain.² The East European researchers have attempted to quantify the amount of information per second which can be transmitted through various human channels. It was noted that in a living organism, the simplest neuron is able to transmit information with a velocity of 4,000 bits (binary units) per second. However, one channel of the eye analyzer was found to be processing information at the rate of only 50 bits per second, and the overall transmitting rate of an individual was found to be limited to only 6-20 bits per second. Although these parameters may differ somewhat from those observed in U.S. psychophysiological and cybernetic laboratories, they nevertheless indicate that from an overall standpoint man is indeed a slow processor and transceiver of information as compared to neural tissue and most electromechanical machines.

¹Green, E., Ph.D., Biofeedback for Mind-Body Self-Regulation: Healing and Creativity. Transcript of the Interdisciplinary Symposium of October 30, 1971, Academy of Parapsychology and Medicine, Los Altos, California.

²Rejdak and Mrkvica, Latent Abilities of the Human Cybernetic System, Journal of Paraphysics, Vol. 5, No. 5, 1971, Prague.

In Eastern Europe, emphasis has been placed on shifting these human sensor limits to the highest possible level through special training programs. Details of these programs are available to Mankind Research Unlimited and will be applied to the task of improving human performance by biocybernetic means. It is noted that the goal of this effort closely parallels that of a recently issued directive from a U.S. government agency which has the objective of exploring and developing means by which information of modest rate can be fed to humans utilizing other senses than sight or hearing and which do not disturb but may possibly reinforce the effectiveness of sight or hearing.¹ Further, this directive notes that the increased need for communications rapidly overloads the information absorption capacity of the senses of sight and hearing, thus making it necessary to find other means than these senses for entering information into humans.

3. Behavioral Effects of Atmospheric Ions

The third technique for improving human performance is based on the effects of atmospheric ions on behavioral patterns. Frey has demonstrated that atmospheric ions have a significant effect on man's performance and that negative ions tend to normalize subjects under stress while positive ions have rather debilitating effects.² Further, the nature of the ion content in a working area influences reaction time, fatigue, reliability of performance, vision, and emotional stability.

The effects of air ions on behavior may be even more accentuated if the working area is a space vehicle, submerged nuclear submarine, or a confined area containing high-voltage electrical equipment since in such cases, the normal ion content of the air is generally degraded. Little research has been conducted to analyze this problem in the U.S., however, scientists in the U.S.S.R. have conducted considerable research in these areas and created as early as 1950 a special permanent committee to study problems of aero-ionization and aero-ionotherapy at the Pavlov Institute of Physiology in the U.S.S.R. Academy of Science.³ Though some attempts have been made in the U.S., to determine whether negative or positive ions can reduce fatigue or stress particularly in the case of pilots, the results until now have been inconclusive.⁴ Recently (1972) a breakthrough has been made in this area through the development of an electronic instrument by the Bio-Electric Systems Co., an affiliate of Mankind Research Unlimited.

¹Copy of directive provided upon request.

²Frey, Allan H., A Rational Framework for Interpreting the Behavioral Effects of Atmospheric Ions, Presentation at the National Conference of the Professional Group of Medical Electronics, 24 August 1970, Houston.

³VASILYEV, L. Atmospheric Ions and Health, Punjab Medical Journal, Vol. 7, February 1958.

⁴Barron and Dreher, Effects of Electric Fields and Negative Ion Concentration on Test Pilots, Aerospace Medicine, January 1964.

This instrument, through application of the biophysics principle known as the "Cristofv effect", generates an electrostatic field indoors similar to the normal outdoor (atmospheric) field. By stimulating the movement of positive and negative ions and relying upon the repellant qualities of these ions, a favorable balance of positive/negative ions can be maintained in designated working areas. Tests to date have revealed significant improvements in the well-being and performance of both humans and animals.

Studies made by two prominent psychiatric and biometeorological researchers (Drs. L. J. Ravitz and I. R. Kornblueh) have correlated specific somatic symptoms, such as behavioral "highs/lows" and emotional states, with the plus/minus polarity of the electrical field around adult human subjects. They have also shown how these conditions relate to behavioral disorders and status of human performance.^{1,2}

Mankind Research Unlimited will apply this principle and instrumentation to the task of creating a favorable environmental ecological balance within a defined working area which would be most conducive to high efficiency and performance.

¹Ravitz, L. J., M.D., Electromagnetic Field Monitoring of Changing State-Function. Published in the Journal of American Society of Psychosomatic Dentistry and Medicine, Vol. 17, No. 4. 1970.

²Kornblueh, I. R., M.D., Air Ions and Human Health, Seminar on Human Biometeorology. Sponsored by Environmental Science Services Administration, 14-17 January 1964, Cincinnati, PHS Publication No. 999-AP-25.

V. COMMENTARY

It is recognized that not all of these techniques and devices will be needed in each and every operational situation. However, a systems approach will be applied to determine which technique, from those available, would provide the maximum return and benefit to the user. This may result in the application of one or more techniques or a combination of techniques when applied to a given situation. A trade-off matrix¹ will be prepared during the course of this proposed study effort to indicate the recommended techniques and also their potential results for the particular user agency.

Monthly progress reports will be prepared during the course of the proposed work effort and at the conclusion, a final technical report will be issued detailing the results of the investigation and highlighting those areas of application and special interest to the user agency.

¹Trade-off Matrix -- Management science technique used to optimize mission-technique applications by considering a number of variables in a systematized manner within a specified environment.

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CENTER FOR PREVENTIVE THERAPY AND REHABILITATION INC

1143 New Hampshire Avenue, N.W. CENTER FOR PREVENTIVE THERAPY
Washington, D.C. 20037 AND REHABILITATION, INC.
Telephone: (202) 785-1235 7775 - 17th STREET, N.W.
WASHINGTON, D.C. 20012
(202) 832-4002

Dear Doctor:

A new facility has been established in Washington, D.C., to help meet the needs of your difficult cases--hypertension, migraines, breast cancer detection, arteriosclerosis, etc.

The Center for Preventive Therapy and Rehabilitation (CEPTAR), offering services which are non-destructive and non-toxic, is located in the heart of Washington near several major medical centers. Our Technical Director, Carl Schleicher, Ph.D., reports the availability of the following services:

BIOFEEDBACK TRAINING, under the supervision of Boris Vern, M.D., enables your patient to learn independent control over his own physiological processes, such as blood pressure, skin temperature, heart rate, etc. It is natural, safe, and effective. Such control can be taught through a series of courses which are primarily designed to alleviate essential hypertension, migraines, and headache pain. The cost of this service ranges from \$10 to \$40 per visit.

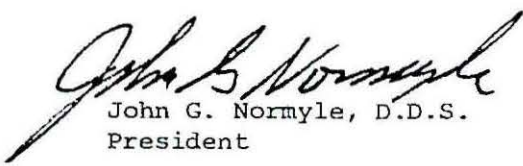
CEPTAR is pleased to announce the capable assistance and participation of the Stress Transformation Center in providing clinical services specifically oriented towards stress control and tension reduction. According to a recent article in Internal Medicine News (May 15, 1974), biofeedback therapy aims at the patient's gaining control over his bodily processes and transferring that control into everyday life. It is further reported that clinical applications of biofeedback include such conditions as sleep-onset insomnia, tension headaches, migraine headaches, and asthma.


In addition to providing biofeedback therapy, CEPTAR also conducts training in biofeedback to members of the medical and dental community, builds and evaluates state-of-the-art biofeedback equipment, and leases or sells biofeedback equipment to those obtaining medical-user authorization.

THERMOGRAPHY, under the direction of John Stauch, Ph.D, is an assessment of the body's infrared radiation. Study of heat patterns is most helpful in early detection of arteriosclerosis, breast cancer, arthritis, stroke, etc. Thermography requires only a few minutes for scanning and photography, and a report will be sent to you within 24-48 hours. The cost of this service varies from \$25 to \$75, depending upon purpose and need.

Future services of the Center for Preventive Therapy and Rehabilitation will include advanced bioelectric neuromuscular devices for rehabilitation and improving sensory functions. These services are designed to relieve these stresses and disabilities prevalent in today's world and to contribute to the well-being of the handicapped person.

We at CEPTAR are happy to make this unique combination of services available for your use, and welcome your personal inspection of our facilities. CEPTAR clinical services qualify for most medical insurance plans. Call (202) 785-1235 for referrals of your patients or for further information on current or future CEPTAR services. Also enquire about CEPTAR biofeedback research programs and charity treatment schedules.


John G. Normyle, D.D.S.
President


Howard Lutz, M.D.
Medical Director

ANNUAL REPORT FOR FOREIGN AND DOMESTIC CORPORATIONS

DUE APRIL 15, 1978.

Filing Fee \$ 15.00
 Penalty _____
 Interest _____
 Total \$ 15.00

DUPLICATE COPY TO BE RETAINED BY CORPORATION
 SEE REVERSE SIDE FOR FILING FEES, PENALTIES, ETC.
 MAKE CHECK PAYABLE TO D. C. TREASURER
 NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT
 MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C. Corporation
 Division, Annual Report Section, 6th and D Streets, N.W., Washington, D.C. 20001

Indicate if corporation is

- ☒ Domestic Profit
☐ Foreign Profit
☐ Non-Profit

1. Name of Corporation

Mankind Research Unlimited, Inc.

2. Organized under the laws of (insert
 District of Columbia, State or Country)

District of Columbia

3. If a foreign corporation, the address of its principal office in the state or
 Country where organized

4. Name of registered agent and address of registered office in the District of
 Columbia (Do not make change of agent on this form)

Carl Schleicher
 1640 Kalmia Rd., N.W.
 Washington, D.C. 20012

5. Brief statement of business or affairs conducted in the District of Columbia
 Research & Development in areas of
 human concern.

6. If a domestic profit corporation, the address including street and number,
 of principal office in the District of Columbia

N/A

7. Name and address, including street and number of directors and officers

	NAME	ADDRESS
Director	Dr. T.W. Horner	4336 Montgomery Avenue, Bethesda, Md. 20014
Director	Dr. Carl Schleicher	1110 Spring St., Silver Spring, Md. 20910
Director	Mr. George Erion	600 New Hampshire Ave., N.W., Washington, D.C.
President	Dr. Carl Schleicher	1110 Spring St., Silver Spring, Md. 20910
Vice President		
Secretary	L.E. Freedman, Esq.	10560 Main St., Fairfax, Va., 22030 (acting)
Treasurer	DR. T.W. Horner	4336 Montgomery Avenue, Bethesda, Md. 20014

DOMESTIC PROFIT CORPORATIONS ANSWER ARTICLES 8 AND 9 (Foreign corporations disregard articles 8 and 9)

8. Aggregate number of shares corporation has authority to issue

NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR
100,000			\$1.00

9. Aggregate number of shares issued

NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR
3,000	common		\$1.00

FOREIGN PROFIT CORPORATIONS ANSWER ARTICLES 10 THRU 13 (Do not apply to domestic corporations)

10. Date organized

11. Term of existence authorized

☐ perpetual ☐ Limited to _____ years

12. Is corporation in good standing in State in which organized?

☐ Yes ☐ No

13. Name of corporation used in the District *

* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)

Date **APR 14 1978**

CORPORATE SEAL

By Carl Schleicher (signature)

Its ☒ Pres. ☐ Vice Pres. ☐ Sec'y
☐ Asst. Sec'y ☐ Treas. ☐ Asst. Treas. if
☐ Receiver or Trustee if non-profit corporation

Government of the District of Columbia
 Form RD-C44-45 & RD-C54

A Fee of \$5.00 will be charged
 for dishonored checks

(Over)

FILED

AUG 21 1978

By CH

70022

OFFICE OF RECORDER OF DEEDS, D. C.
Corporation Division
Sixth and D Streets, N. W.
Washington, D. C. 20001

EXECUTE IN DUPLICATE

Filing Fee \$1.00
Indexing Fee 2.00
Total \$3.00

Make check payable to
Recorder of Deeds, D. C.

**STATEMENT OF CHANGE
OF**

REGISTERED OFFICE, REGISTERED AGENT OR BOTH

(Pursuant to Title 28 of the D. C. Code)

Change was authorized by resolution duly adopted by board of directors or by officer of corporation duly empowered to make such change.

1. NAME of Corporation.

MANKIND RESEARCH UNLIMITED, INC.

2. NAME of registered agent as it appears of record

Carl Schleicher

3. NAME of registered agent as changed. *(successor to above)

Charles R. Norberg

April 14, 1978

Date

Corporate Seal



Attest:

Frank M. Wilson

Secretary or Assistant Secretary

4. Address, including street and number, of registered office as it appears of record. 1640 Kalmia Rd., N.W.
Washington, D.C. 20012

5. Address, including street and number, of registered office as changed. (successor to above)

Federal Bar Bldg. Suite 310
1819 H St., N.W., Washington, D.C.

(Address of registered office and business address of registered agent must be identical.)

Corporate name

Mankind Research Unlimited, Inc.

Carl Schleicher

President or Vice President

(Signature)

FILED

AUG 21 1978

By

CHR

* Agent must be District resident. Corporate agent must be qualified in the District.
Government of the District of Columbia

ANNUAL REPORT FOR FOREIGN AND DOMESTIC CORPORATIONS

720022

DUE APRIL 15, 1977

Filing Fee	35.00 15.00
Penalty	-----
Interest	-----
Total	15.00 35.00

DUPLICATE COPY TO BE RETAINED BY CORPORATION
 SEE REVERSE SIDE FOR FILING FEES, PENALTIES, ETC.
 MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.
 NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT
 MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C. Corporation
 Division, Annual Report Section, 6th and D Streets, N.W., Washington, D.C. 20001

Indicate if corporation is	
<input checked="" type="checkbox"/>	Domestic Profit
<input type="checkbox"/>	Foreign Profit
<input type="checkbox"/>	Non-Profit

<p>1. Name of Corporation Mankind Research Unlimited, Inc.</p> <p>2. Organized under the laws of (insert District of Columbia, State or Country) District of Columbia</p> <p>3. If a foreign corporation, the address of its principal office in the state or Country where organized</p>	<p>4. Name of registered agent and address of registered office in the District of Columbia (Do not make change of agent on this form) Dr. Carl Schleicher 1640 Kalmia Rd., N.W., Washington, D.C. 20012</p> <p>5. Brief statement of business or affairs conducted in the District of Columbia Research and Development in areas of human concern</p> <p>6. If a domestic profit corporation, the address including street and number of principal office in the District of Columbia 1640 Kalmia Rd., N.W. Washington, D.C. 20012</p>
---	---

7. Name and address, including street and number of directors and officers	
NAME	ADDRESS
Director Mrs. Betty Miller 623 Blossom Drive, Rockville, Md.	
Director Mr. George Erion 600 New Hampshire Ave. Washington, D.C.	
Director Dr. Carl Schleicher 1640 Kalmia Rd., N.W., Washington, D.C.	
President Dr. Carl Schleicher 1640 Kalmia Rd., N.W., Washington, D.C.	
Vice President Mr. Harry Davis (acting) Wachmann Str. Bremen, West Germany	
Secretary Mrs. Betty Miller 632 Blossom Drive, Rockville, Md.	
Treasurer Dr. Ted Horner 7979 Old Georgetown Rd., Bethesda, Md.	

DOMESTIC PROFIT CORPORATIONS ANSWER ARTICLES 8 AND 9 (Foreign corporations disregard articles 8 and 9)

8. Aggregate number of shares corporation has authority to issue				9. Aggregate number of shares issued			
NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR	NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR
30,000	Common		\$1.00	3,000	Common		\$1.00

FOREIGN PROFIT CORPORATIONS ANSWER ARTICLES 10 THRU 13 (Do not apply to domestic corporations)

<p>10. Date organized</p> <p>11. Term of existence authorized <input type="checkbox"/> perpetual Limited to _____ years</p>	<p>12. Is corporation in good standing in State in which organized? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>13. Name of corporation used in the District *</p> <p style="font-size: small;">* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)</p>
---	--

<p>Date APR 14 1977</p> <p style="text-align: center;">CORPORATE SEAL</p>	<p>By (signature)</p> <p>Its <input checked="" type="checkbox"/> Pres. <input type="checkbox"/> Vice Pres. <input type="checkbox"/> Sec'y <input type="checkbox"/> Asst. Sec'y <input type="checkbox"/> Treas. <input type="checkbox"/> Asst. Treas. if non-profit corporation <input type="checkbox"/> Receiver or Trustee if non-profit corporation</p>
--	--

Government of the District of Columbia
 Form RE-C44-45 & RD-C54
 A Fee of \$5.00 will be charged for dishonored checks

(Over)

AUG 19 1977
 By

ANNUAL REPORT FOR FOREIGN AND DOMESTIC CORPORATIONS

DUE ON OR BEFORE APRIL 15, 1976

Filing Fee \$ 25.00
 Penalty 25.00
 Interest 1.25
 Total \$ 51.25

DUPLICATE COPY TO BE RETAINED BY CORPORATION
 FILING FEE FOREIGN CORPORATIONS \$10.00
 FILING FEE DOMESTIC CORPORATIONS—SEE REVERSE SIDE
 \$25.00 PENALTY DUE IF NOT FILED BY APRIL 15.
 MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.
 NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT
 MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C. Corporation
 Division, 6th and D Streets, N. W., Washington, D. C. 20001

<p>1. Name of Corporation MANKIND RESEARCH UNLIMITED INC.</p> <p>2. Name of registered agent and address of registered office in the District of Columbia Carl Schleicher 1640 Kalmia Road N. W. Washington, D. C. 20012</p>	<p>3. Brief statement of business in the District of Columbia RESEARCH AND DEVELOPMENT</p> <p>4. Address, including street and number, of principal office in the District of Columbia 1640 Kalmia Road N. W. Washington, D. C. 20012</p>
--	---

5. Name and address, including street and number, of directors and officers	NAME	ADDRESS
Director	George Danciu	5400 Crescent Ave, Cleveland, Ohio, 44102
Director	George Erion	2500 Virginia Avenue, N.W., Washington, D.C.
Director	Betty Miller	623 Blossom Drive, Rockville, Md. 20850
President	Carl Schleicher	1640 Kalmia Road, N.W., Washington, D.C. 20012
Vice President		
Secretary	Betty Miller	623 Blossom Drive, Rockville, Md. 20850
Treasurer	George Erion	2500 Virginia Avenue N. W., Washington, D. C.
	DIRECTOR: Dr Harry K. Panjwani	66 Glen Avenue, Glen Rock, N. J. 07452

DOMESTIC CORPORATIONS ANSWER ARTICLES 8 AND 7 (Do not apply to foreign corporations)

6. Aggregate number of shares corporation has authority to issue	7. Aggregate number of shares issued																
<table style="width: 100%;"> <tr> <th>NO. OF SHARES</th> <th>CLASS</th> <th>SERIES</th> <th>PAR VALUE PER SHARE OR WITHOUT PAR</th> </tr> <tr> <td>100,000</td> <td>C</td> <td></td> <td>\$1.00</td> </tr> </table>	NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR	100,000	C		\$1.00	<table style="width: 100%;"> <tr> <th>NO. OF SHARES</th> <th>CLASS</th> <th>SERIES</th> <th>PAR VALUE PER SHARE OR WITHOUT PAR</th> </tr> <tr> <td>42,281</td> <td>C</td> <td></td> <td>\$1.00</td> </tr> </table>	NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR	42,281	C		\$1.00
NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR														
100,000	C		\$1.00														
NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR														
42,281	C		\$1.00														

FOREIGN CORPORATIONS ANSWER ARTICLES 8 THRU 13 (Do not apply to domestic corporations)

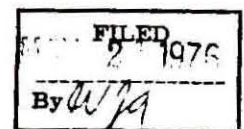
<p>8. Organized under the laws of the State of _____</p> <p>9. Date organized _____</p> <p>10. Term of existence authorized <input type="checkbox"/> perpetual <input type="checkbox"/> Limited to _____ years</p> <p>11. Is corporation in good standing in State in which organized? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>12. Address of principal office in State where organized _____</p> <p>13. Name of corporation used in the District *</p> <p><small>* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)</small></p>
---	--

Date **May 12, 1976**
CORPORATE SEAL

By *W. Schleicher* (Signature)

☒ Pres. ☐ Vice Pres. ☐ Treas.
☐ Sec'y ☐ Asst. Sec'y

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 Form RD-C 44-45
 Rev. Oct. 1963



(Over)

ANNUAL REPORT FOR FOREIGN AND DOMESTIC CORPORATIONS

DUE ON OR BEFORE APRIL 15, 1975

Filing Fee \$ 25.00
Penalty 5.00
Interest 3.25
Total \$ 33.25

DUPLICATE COPY TO BE RETAINED BY CORPORATION
FILING FEE FOREIGN CORPORATIONS \$10.00
FILING FEE DOMESTIC CORPORATIONS—SEE REVERSE SIDE
\$25.00 PENALTY DUE IF NOT FILED BY APRIL 15.
MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.
NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT
MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C. Corporation
Division, 6th and D Streets, N. W., Washington, D. C. 20001

1. Name of Corporation MINKIND RESEARCH UNLIMITED INC.	3. Brief statement of business in the District of Columbia RESEARCH AND DEVELOPMENT
2. Name of registered agent and address of registered office in the District of Columbia CARL SCHLEICHER 1143 N. H. Ave. N. W. Washington, D. C. 20037	4. Address, including street and number, of principal office in the District of Columbia 1143 N. H. Ave. N. W.

5. Name and address, including street and number, of directors and officers	
NAME	ADDRESS
Director Carolyn Amundson	1608 East-West Highway, S.S., Md. 20910
Director Dr Charles M. Unkovic	200 Maple Avenue, Falls Church, Va. 22046
Director James Gattuso Jr.	1075 West Market St., Akron, Ohio, 44303
President Carl Schleicher	1143 N. H. Ave. N. W., Wash, D. C. 20037
Vice President James L. Helsel	213 Pine St., Harrisburg, Pa.
Secretary Carolyn Amundson	1608 East-West Highway, S. S., Md. 20910
Treasurer James L. Helsel	213 Pine St., Harrisburg, Pa.

See reverse for additional directors----

DOMESTIC CORPORATIONS ANSWER ARTICLES 8 AND 7 (Do not apply to foreign corporations)

6. Aggregate number of shares corporation has authority to issue				7. Aggregate number of shares issued			
NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR	NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR
100,000	C		\$1.00	42,281	C		\$1.00

FOREIGN CORPORATIONS ANSWER ARTICLES 8 THRU 13 (Do not apply to domestic corporations)

8. Organized under the laws of the State of	12. Address of principal office in State where organized
9. Date organized	13. Name of corporation used in the District *
10. Term of existence authorized <input type="checkbox"/> perpetual <input type="checkbox"/> Limited to _____ years	* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)
11. Is corporation in good standing in State in which organized? <input type="checkbox"/> Yes <input type="checkbox"/> No	

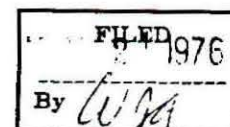
Date May 12, 1976

CORPORATE SEAL

By [Signature] (Signature)

☒ Pres. ☐ Vice Pres. ☐ Treas.
Its ☐ Sec'y ☐ Asst. Sec'y

GOVERNMENT OF THE DISTRICT OF COLUMBIA
Form RD-C 44-45
Rev. Oct. 1963



(Over)

INSTRUCTIONS: Each domestic corporation organized, incorporated, or reincorporated under the provisions of the Code of Laws of the District of Columbia, Title 26, Chapter 9, shall pay at the rate hereinafter set out, an annual report fee based upon the amount of the total authorized capital stock on the 15th day of March immediately preceding April 15th the date on which such report is due to be filed. The report fee shall be paid at the time of filing. Filing fee is computed as follows: Where the total authorized capital stock does not exceed \$25,000, \$15; where it exceeds \$25,000, but not \$100,000, \$35; where it exceeds \$100,000, but not \$300,000, \$40; where it exceeds \$300,000, but not \$500,000, \$70; where it exceeds \$500,000, but not \$1,000,000, \$100; and a further sum of \$50 for each \$1,000,000, or fraction thereof, in excess of \$1,000,000. Shares without par value, for the purpose of ascertaining the amount of the report fee, but for no other purpose, shall be taken to be of the par value of \$100 each. In the case of a newly organized corporation, the amount of the annual report fee to be paid at the time of the filing of its first annual report shall be an amount at the rates provided above prorated on a monthly basis for the period from the date its certificate of incorporation or reincorporation was filed to the April 15 on which said first annual report is due to be filed.

ADDITIONAL DIRECTORS:

Carl Schleicher
Harry Davis
Betty Miller
James L. Helsel

1143 N. H. Ave., N.W., Wash, D. C. 20037
16202 Buccaneer, Houston, Texas 77058
623 Blossom Drive, Rockville, Md. 20850
213 Pine Street, Harrisburg, Pa.

720022

OFFICE OF RECORDER OF DEEDS, D.C.
Corporation Division
Sixth and D Streets, N.W.
Washington, D.C. 20001

EXECUTE IN DUPLICATE

Filing Fee \$1.00
Indexing Fee 2.00
Total \$3.00

Make check payable to
Recorder of Deeds, D.C.

STATEMENT OF CHANGE

OF :

REGISTERED OFFICE, REGISTERED AGENT OR BOTH

(Pursuant to Title 29 of the D. C. Code)

Change was authorized by resolution duly adopted by board of directors or by officer of corporation duly empowered to make such change.

1. NAME of Corporation.

MANKIND RESEARCH UNLIMITED, INC.

2. NAME of registered agent as it appears of record

C T CORPORATION SYSTEM

3. NAME of registered agent as changed. *(successor to above)

Carl Schleicher

4. Address, including street and number, of registered office as it appears of record.

919 16th St. N. W., Washington, D. C.

5. Address, including street and number, of registered office as changed. (successor to above)

1640 Kalmia Rd., N. W., Washington, D. C.
20012

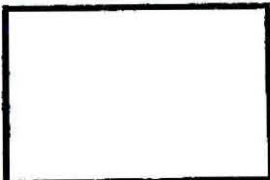
(Address of registered office and business address of registered agent must be identical.)

Date May 11, 1976

Corporate name

MANKIND RESEARCH UNLIMITED INC.

Corporate Seal



Attest:

Betty Miller
Secretary or Assistant Secretary

Carl Schleicher

(Signature)

President or Vice-President

FILED

MAY 21 1976

By WJA

* Agent must be District resident. Corporate agent must be qualified in the District.
Government of the District of Columbia

ANNUAL REPORT FOR FOREIGN AND DOMESTIC CORPORATIONS

DUE ON OR BEFORE APRIL 15, 1974

Filing Fee \$ 25.00
 Penalty 25.00
 Interest 6.25
 Total \$56.25

DUPLICATE COPY TO BE RETAINED BY CORPORATION
 FILING FEE FOREIGN CORPORATIONS \$10.00
 FILING FEE DOMESTIC CORPORATIONS—SEE REVERSE SIDE
 \$25.00 PENALTY DUE IF NOT FILED BY APRIL 15.
 MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.
 NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT
 MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C. Corporation
 Division, 6th and D Streets, N. W., Washington, D. C. 20001

<p>1. Name of Corporation MANKIND RESEARCH UNLIMITED INC.</p> <p>2. Name of registered agent and address of registered office in the District of Columbia CARL SCHLEICHER 1143 N. H. Ave. N. W. Washington, D. C. 20037</p>	<p>3. Brief statement of business in the District of Columbia RESEARCH AND DEVELOPMENT</p> <p>4. Address, including street and number, of principal office in the District of Columbia 1143 N. H. Ave. N. W.</p>
---	--

5. Name and address, including street and number, of directors and officers	
NAME	ADDRESS
Director Gen. Harry M. Gross	2905 N. Front St., Harrisburg, Pa.
Director Betty Miller	623 Blossom Drive, Rockville, Md.
Director Harry Davis	16202 Buccaneer, Houston, Tex 77056
President Carl Schleicher	1143 N. H. Ave., N.W., Wash, D.C. 20037
Vice President James Gattuso, Jr.	1075 W. Market St., Akron, Ohio 44303
Secretary Charles R. Norberg	1819 H St. N. W., Wash, D.C. 20006
Treasurer Joe Emswiler	Highway West, DeFunak Springs, Fla
DIRECTOR: Carl Schleicher 1143 N. H. Ave. N. W., Wash, D. C.	

DOMESTIC CORPORATIONS ANSWER ARTICLES 8 AND 7 (Do not apply to foreign corporations)

6. Aggregate number of shares corporation has authority to issue				7. Aggregate number of shares issued			
NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR	NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR
100,000	C		\$1.00	37,360	C		\$1.00

FOREIGN CORPORATIONS ANSWER ARTICLES 8 THRU 13 (Do not apply to domestic corporations)

<p>8. Organized under the laws of the State of _____</p> <p>9. Date organized _____</p> <p>10. Term of existence authorized <input type="checkbox"/> perpetual <input type="checkbox"/> Limited to _____ years</p> <p>11. Is corporation in good standing in State in which organized? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>12. Address of principal office in State where organized _____</p> <p>13. Name of corporation used in the District * _____</p> <p>* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)</p>
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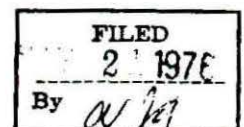
Date May 12, 1976

CORPORATE SEAL

By *Carl Schleicher* (Signature)

☒ Pres. ☐ Vice Pres.
☐ Sec'y ☐ Asst. Sec'y ☐ Trans.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 Form RD-C 44-4b
 Rev. Oct. 1968



(Over)

ANNUAL REPORT FOR FOREIGN AND DOMESTIC CORPORATIONS

DUE ON OR BEFORE APRIL 15, 1973

Filing Fee \$ 25.00
 Penalty \$ 25.00
 Interest 9.25
 Total \$ 59.25

DUPLICATE COPY TO BE RETAINED BY CORPORATION
 FILING FEE FOREIGN CORPORATIONS \$10.00
 FILING FEE DOMESTIC CORPORATIONS—SEE REVERSE SIDE
 \$25.00 PENALTY DUE IF NOT FILED BY APRIL 15.
 MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.
 NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT
 MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C. Corporation
 Division, 8th and D Streets, N. W., Washington, D. C. 20001

1. Name of Corporation <p style="text-align: center;">MANKIND RESEARCH UNLIMITED INC.</p>	3. Brief statement of business in the District of Columbia <p style="text-align: center;">RESEARCH AND DEVELOPMENT</p>
2. Name of registered agent and address of registered office in the District of Columbia <p style="text-align: center;">C. T. CORPORATION 919 16th St. N. W.</p>	4. Address, including street and number, of principal office in the District of Columbia <p style="text-align: center;">1050 31st St. N. W.</p>

5. Name and address, including street and number, of directors and officers	
NAME	ADDRESS
Director Fred Israel	1015 18th St. N. W., Wash, D. C. 20036
Director Jose Yglesias	1050 31st St. N. W., Wash, D. C. 20007
Director William D. Campbell	1050 31st St. N. W., Wash, D. C. 20007
President Carl Schleicher	2111 Jeff Davis Hwy, Arl, Va. 22202
Vice President	
Secretary Fred Israel	1050 31st St. N. W., Wash, D. C. 20007
Treasurer Jose Yglesias	1050 31st St. N. W., Wash, D. C. 20007
DIRECTOR: Edwin Tritch	1050 31st St. N. W., Wash, D. C. 20007

DOMESTIC CORPORATIONS ANSWER ARTICLES 6 AND 7 (Do not apply to foreign corporations)

6. Aggregate number of shares corporation has authority to issue				7. Aggregate number of shares issued			
NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR	NO. OF SHARES	CLASS	SERIES	PAR VALUE PER SHARE OR WITHOUT PAR
100,000	C		\$1.00	NONE			

FOREIGN CORPORATIONS ANSWER ARTICLES 8 THRU 13 (Do not apply to domestic corporations)

8. Organized under the laws of the State of _____ 9. Date organized _____ 10. Term of existence authorized <input type="checkbox"/> perpetual Limited to _____ years 11. Is corporation in good standing in State in which organized? <input type="checkbox"/> Yes <input type="checkbox"/> No	12. Address of principal office in State where organized _____ 13. Name of corporation used in the District * * (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)
--	--

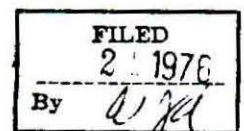
Date May 12, 1976

CORPORATE SEAL

By [Signature] (Signature)

☒ Pres. ☐ Vice Pres.
☐ Sec'y ☐ Am't. Sec'y
☐ Treas.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 Form RD-C 44-45
 Rev. Oct. 1968



(Over)

720022

2

8.33
25.00
3.92
37.25

MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.

MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.

NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT

MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C. C.

Division, 6th and D Streets, N. W., Washington, D. C. 20001

Division, 6th and D Streets, N. W., Washington, D. C. 20001

5. Name and address, including street and number, of directors and officers		
	NAME	ADDRESS
Director	Fred Israel	1015 18th St. N. W., Wash, D.C. 20036
Director	Jose Yglesias	1050 31st St. N. W., Wash, D. C. 20007
Director	William D. Campbell	1050 31st St. N. W., Wash, D. C. 20007
President	Carl Schleicher	2111 Jeff Davis Hiway, Arl, Va. 22202
Vice President		
Secretary	Fred Israel	1050 31st St. N. W., Wash, D. C. 20007
Treasurer	Jose Yglesias	1050 31st St. N. W., Wash, D. C. 20007
DIRECTOR:	Edwin Tritch	1050 31st St. N. W., Wash, D. C. 20007

FOREIGN CORPORATIONS ANSWER ARTICLES 8 THRU 13 (Do not apply to domestic corporations)	
8. Organized under the laws of the State of _____	12. Address of principal office in State where organized _____
9. Date organized _____	13. Name of corporation used in the District *
10. Term of existence authorized <input type="checkbox"/> perpetual Limited to _____ years	* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.
11. Is corporation in good standing in State in which organized? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Date May 12, 1976 By J. C. McKinley (Signature)

CORROSION 5

.....

☐ Vice Pres.☐ True☐ Amt. Sec'y

2

100

OFFICE OF RECORDER OF DEEDS
Corporation Division
Sixth and D Streets, N. W.
Washington, D.C. 20001

CERTIFICATE

THIS IS TO CERTIFY that all applicable provisions of the District of Columbia
Business Corporation Act have been complied with and ACCORDINGLY this Certificate
of _____ Reinstatement _____ is hereby issued to _____

_____ MANKIND RESEARCH UNLIMITED INC. _____

as of _____ May 21 _____, 19 _____ 76 _____.

PETER S. RIDLEY
Recorder of Deeds, D.C.



By David H. Cole

Superintendent of Corporations

720077

APPLICATION AND PETITION FOR REINSTATEMENT OF
ARTICLES OF INCORPORATION

To: The Recorder of Deeds, D.C.
Washington, D.C.

Pursuant to the provisions of Title 29, of the Code of
Laws of the District of Columbia, the undersigned corporation
hereby petitions and applies for a Certificate of Reinstatement
of a proclaimed domestic corporation and hereby certifies as
follows:

FIRST: The name of the corporation at the time of publica-
tion of the proclamation was
MANKIND RESEARCH UNLIMITED INC.

SECOND: The new name by which the corporation will here-
after be known is
MANKIND RESEARCH UNLIMITED INC.

THIRD: The Certificate of Incorporation was revoked on Sep-
tember, 19 ..73, for failure and/or refusal to file any
annual report for two consecutive years, next preceding June 30,
19 ..73.

FOURTH: The address, including street and number, if any,
of the registered office in the District of Columbia is
...1640 Kalmia Rd. N.W. and the name of the registered agent
at such address is Carl Schleicher

FIFTH: This application and petition is accompanied by all
delinquent reports together with requisite filing fees, plus interest
thereon and penalties required by the Code of Laws of the District
of Columbia.

Date ..May 12...., 19 ..76. MANKIND RESEARCH UNLIMITED INC.
(Corporate Name)

(Corporate Seal) By *Carl Schleicher*
(Its President or Vice President)

Attest:
..... *Betty Miller*
(Its Secretary or Assistant Secretary)

FILED
MAY 21 1976
WJA

FEES DUE:

Business	
Filing fee	\$50.00
Indexing fee	2.00
	<u>\$52.00</u>

Non-Profit	
Filing fee	\$10.00
Indexing fee	2.00
	<u>\$12.00</u>

720022

OFFICE OF RECORDER OF DEEDS
Corporation Division
Sixth and D Streets, N. W.
Washington, D. C.

CERTIFICATE OF REVOCATION

THIS IS TO CERTIFY that pursuant to the Code of Laws for the District of
Columbia, the Certificate of INCORPORATION
of MANKIND RESEARCH UNLIMITED, INC.
is revoked as of September 9, 1974.

PETER S. RIDLEY,
Recorder of Deeds, D. C.

By David H. Cole
David H. Cole Superintendent of Corporations

FILED

9/9/74

By WMC

OFFICE OF RECORDER OF DEEDS
Corporation Division
Sixth and D Streets, N. W.
Washington, D. C. 20001

720022

CERTIFICATE

THIS IS TO CERTIFY that all applicable provisions of the District of Columbia Business Corporation
Act have been complied with and ACCORDINGLY this Certificate of Incorporation
_____ is hereby issued to MANKIND RESEARCH UNLIMITED, INC.

as of January 4, 19 72

PETER S. RIDLEY,
Recorder of Deeds, D.C.


By Alfred Goldstein
Superintendent of Corporations

Office of the Superintendent of Corporations
District of Columbia

Filing Fee: \$20.00
Indexing Fee: 2.00
Initial License Fee: ~~40.00~~ 20.00

ARTICLES OF INCORPORATION
OF
MANKIND RESEARCH UNLIMITED, INC.

We, the undersigned natural persons of the age of twenty-one or more years, acting as incorporators of a corporation under the District of Columbia Business Corporation Act, adopt the following Articles of Incorporation for such corporation:

FIRST: The name of the corporation is MANKIND RESEARCH UNLIMITED, INC.

SECOND: The period of its duration is perpetual.

THIRD: The purpose or purposes for which the corporation is organized are:

- a) To engage in the business of performing scientific research, development, and application of bio-communication and other activities which impact on the welfare of mankind.
- b) To compile and disseminate information, data, and advice in respect to matters relating to a) supra.; to enter into agreements with any corporation, association, individual, foreign government, the United States of America, any of the several states, municipalities, or other political subdivision, in promoting, advising, consulting with, and maintaining and operating any venture or enterprise to a) supra., and to aid and assist in any manner any corporation, association, organization, individual, foreign government, or federal, state, municipal, or other political subdivision with which this company may have business relations.
- c) To initiate, conceive, devise, originate, invent, install, discover, construct, furnish, provide, put into operation, plan, prepare, develop, process, utilize, manage, control, appraise, define, supervise, improve, perfect, record, preserve and complete any programs, procedures, methods, processes, schedules, formulae, techniques, instruments, appliances, apparatus,

FILED

JAN 4 1972

BY: *CM*

and any and all systems of any kind and nature whatsoever, which may seem to the corporation necessary or suitable for furthering any of the objects and purposes stated in a) supra.

d) To conduct the business of buying, selling, licensing, leasing, renting, constructing, erecting, installing, maintaining and repairing machinery, equipment, accessories, parts, units and material, and anything usable or appurtenant to the aforementioned purposes, and to do all other things commonly done by those engaged in a similar business.

e) To act as a broker or agent in connection with the sale, purchase, lease or rental of the foregoing items.

f) To acquire, hold, use, sell, assign, lease and grant licenses or sublicenses in respect of, pledge or otherwise dispose of letters patent of the United States or any foreign country, patent rights, licenses, privileges, inventions, improvements, processes, copyrights, trademarks and trade names relating to or useful in connection with any business of the corporation.

g) To purchase, acquire, own, lease, hold, sell, exchange, convey, mortgage, pledge, hypothecate, deal in or otherwise dispose of real and personal property of every kind, character and description wheresoever situated.

h) To acquire all necessary franchises, licenses, grants, permits and other evidences of authority to carry on any of the aforementioned businesses, activities or transactions and to sell, transfer, assign and dispose of, in the manner allowed by law, said franchises, licenses, grants, and permits or other evidences of authority.

i) To acquire all or any part of the goodwill, rights, property and business of any person, firm, association or corporation heretofore or hereafter engaged in any business similar to any business which the corporation has the power to conduct, to pay for the same in cash or in stocks or bonds of the corporation or otherwise, to hold, utilize, and in any manner dispose of the whole or any part of the rights and property so acquired, and to assume in connection therewith any liabilities of any such person, firm, association or corporation, and conduct in any lawful manner the whole or any part of the business thus acquired.

- j) In general, to carry on any business, not contrary to the laws of the District of Columbia, and to have and exercise all of the powers conferred by the laws of said District upon corporations formed thereunder, and to do any or all of the things hereinbefore set forth, in whole or in part, through, by means of, with the aid of, or in the name of any other person or persons, corporation or corporations, to the same extent as natural persons could do, and in any part of the world, as principal, agent, or otherwise, and either alone or in company with others.
- k) To conduct business in the District of Columbia, other states, the territories, commonwealths, and colonies of the United States, and in foreign countries, and have one or more offices out of the District of Columbia, and to hold, purchase, mortgage and convey real and personal property within and without said District.
- l) To do all and everything necessary, suitable or proper for the accomplishment of any of the purposes or the attainment of any of the objects or the furtherance of any of the powers herein set forth, and to do every other act or acts, thing or things, incidental or appurtenant to, or growing out of, or connected with the aforesaid business or powers or any part or parts thereof, provided the same be not inconsistent with the laws of the District of Columbia under which the corporation is organized.
- m) The objects and purposes specified in the foregoing clauses of this Article Third shall, except where otherwise expressed in this Article, be in no wise limited or restricted by reference, or inference from, the terms of any other clause of this or any other article in these Articles of Incorporation, but shall be regarded as independent objects and purposes, and shall be construed as powers as well as objects and purposes.
- n) The corporation shall be authorized to exercise and enjoy all other powers, rights and privileges conferred upon and granted to corporations of this character by the laws, as in force from time to time, of the District of Columbia, now or hereafter in effect, and the enumeration of certain powers as herein specified is not intended as exclusive of, or as a waiver of, any of the powers, rights or privileges conferred or granted by said laws now or hereafter in force; provided, however, that the Corporation shall not in the District of Columbia or any state, territory, possession or country, carry on any business, or exercise any powers which a corporation organized under the laws of the said District of Columbia or any state, territory, possession or country could not carry on or exercise.

o) Nothing herein contained shall be construed as giving the corporation any rights, powers or privileges not permitted to it by the laws of the District of Columbia.

FOURTH: The aggregate number of shares which the corporation is authorized to issue is 200,000, divided into two classes. The designation of each class, the number of shares of each class, and the par value, if any, of the shares of each class, or a statement that the shares of any class are without par value, are as follows:

<u>Number of Shares</u>	<u>Class</u>	<u>Series (If Any)</u>	<u>Par Value Per Share or Statement That Shares are Without Par Value</u>
100,000	Voting	None	\$1.00

FIFTH: The preferences, qualifications, limitations, restrictions, and special or relative rights in respect of the shares of each class are: NONE

SIXTH: The corporation will not commence business until at least One Thousand Dollars (\$1,000) has been received by it as consideration for the issuance of shares.

SEVENTH: Provisions limiting or denying to shareholders the pre-emptive right to acquire additional shares of the corporation are:

No holder of stock of this corporation shall have any pre-emptive right to subscribe for any part of any unissued stock of this corporation or for any additional stock of any class to be issued by reason of any increase of the authorized capital stock of this corporation or to purchase or subscribe for any bonds, debentures, or other securities convertible into stock of this corporation, and any such unissued stock or any such additional authorized issue of new stock or of obligations convertible into stock of the corporation may be issued and disposed of by the Board of Directors to such persons, firms, corporations or associations and upon such terms as the Board of Directors in its discretion may determine.

EIGHTH: Provisions for the regulations of the internal affairs of the corporation are:

a) The Board of Directors of the corporation shall be empowered to authorize the issuance, from time to time, of shares of its stock of any class whether now or hereafter authorized and securities convertible into shares of its stock of any class whether now or hereafter

authorized for such considerations as the said Board of Directors may deem advisable, subject to such limitations and restrictions, if any, as may be set forth in the by-laws of the corporation.

b) Any officer and any employee may be removed (except from the office of Director) at any time by a vote of a majority of the whole Board of Directors. Any officer and any employee not elected or appointed by the Board of Directors may be removed at any time by any Committee or officer or employee upon whom such power of removal may be conferred by the by-laws or by vote of the Board of Directors.

c) All corporate powers of the corporation shall be exercised by the Board of Directors except as otherwise provided by law.

In the absence of fraud, no contract or other transaction between the corporation and any other corporation or any individual, association or firm shall be in any way affected or invalidated by the fact that any of the Directors of the corporation are interested in such other corporations, associations or firms, or personally interested in such contract or transaction, nor shall any Director so interested be liable to account to the corporation for any profit made by him from or through any such contract or arrangement so adopted by the Board of Directors or which may be ratified and approved by the stockholders entitled to vote, by reason of such Director holding such office or the fiduciary relation thereby established. Any Director of the corporation may vote upon any contract or other transaction between this corporation and any subsidiary or affiliated corporation without regard to the fact that he is also a Director of such subsidiary or affiliated corporation.

d) Notwithstanding any provisions of law requiring any action to be taken or authorized by the affirmative vote of a majority or other designated proportion of the shares or otherwise to be taken or authorized by vote of the stockholders, such action shall be effective and valid if taken or authorized by the affirmative vote of the holders of a majority of the total number of shares outstanding and entitled to vote thereon.

e) The corporation shall have at least three initial directors, which number may be increased from time to time in such lawful manner as the by-laws of the corporation shall provide.

NINTH: The address, including street and number of the initial registered office of the corporation is 919 - 16th St., N. W., c/o C T Corporation System, Washington, D. C., and the name of the initial registered agent at such address is C T Corporation System.

TENTH: The number of directors constituting the initial Board of Directors of the corporation is three (3), and the names and addresses, including street and number, of the persons who are to serve as directors until the first annual meeting of shareholders or until their successors are elected and shall qualify are:

Name:

Address:

Fred Israel

1015 - 18th Street, N. W.
Washington, D. C. 20036

Jose J. Yglesias

1050 - 31st Street, N. W.
Washington, D. C. 20007

William D. Campbell

1050 - 31st Street, N. W.
Washington, D. C. 20007

ELEVENTH: The name and address, including street and number, of each incorporator is:

Name:

Address:

Fred Israel

1015 - 18th Street, N. W.
Washington, D. C. 20036

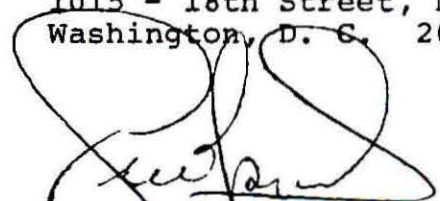
Irving Maness


1015 - 18th Street, N. W.
Washington, D. C. 20036

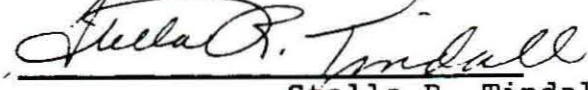
Stella R. Tindall

1015 - 18th Street, N. W.
Washington, D. C. 20036

DATED: December 21, 1971


Fred Israel


Irving Maness


Stella R. Tindall

DISTRICT OF COLUMBIA, ss:

I, Beverly M. Bird, a notary public in and for the
District of Columbia, hereby certify that FRED ISRAEL,
IRVING MANESS, and STELLA R. TINDALL,
appeared before me this 22nd day
of December, 19 71, and upon being duly sworn
on oath declared that they were the incorporators of Mankind
Research Unlimited, Inc., and that the statements in the foregoing
Articles of Incorporation are true and correct to the best of
their knowledge and belief.

Beverly M. Bird
Notary Public, D. C.

My commission expires: _____

My Commission Expires October 14, 1976

732695

OFFICE OF RECORDER OF DEEDS, D. C.

Corporation Division
Sixth and D Streets, N. W.
Washington, D. C. 20001

CERTIFICATE

THIS IS TO CERTIFY that all provisions of the District of Columbia
Non-profit Corporation Act have been complied with and ACCORD-
INGLY this Certificate of _____ Incorporation

is hereby issued to the _____ MANKIND RESEARCH FOUNDATION

as of the date hereinafter mentioned.

Date October 9, 1973



PETER S. RIDLEY,
Recorder of Deeds, D. C.

Alfred Goldstein

Alfred Goldstein
Superintendent of Corporations

FILING FEE
INDEXING FEE

10.00
2.00

ARTICLES OF INCORPORATION
OF
MANKIND RESEARCH FOUNDATION

To: Recorder of Deeds, D. C.
Washington, D. C.

We, the undersigned natural persons of the age of twenty-one years or more, acting as incorporators of a corporation adopt the following Articles of Incorporation for such corporation pursuant to the District of Columbia Non-Profit Corporation Act:

FIRST: The name of the Corporation is Mankind Research Foundation.

SECOND: The period of duration is perpetual.

THIRD: The purpose or purposes for which the corporation is organized are:

The corporation is organized exclusively for charitable, scientific, educational and literary purposes, including, for such purposes, the making of distributions to organizations that qualify as exempt organizations under Section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provision of any future United States Internal Revenue Law).

FILED

OCT 9 1973

BY: *[Signature]*

In furtherance thereof, the corporation will:

1. Engage in charitable activities;
2. Engage in scientific research activities in the public interest, enabling the corporation to serve as a focal point for cynergistic interaction for the arts, sciences and technology, adding new dimensions to physical, psychological and spiritual diagnostic activities;
3. Conduct scientific inquiries into present and future medical and hospital techniques, directly and in working liaison with a specialized Mankind Research Center, which will serve as a bridge between existing medical and educational institutions, thus facilitating the provision of comprehensive aid to those in physical, psychological and spiritual need through a full complement of professional services designed to deal with potential areas of human stress.
4. Instruct or train individuals or instruct the public by conducting public discussion groups, forums, panels, lectures or other similar programs dealing with new techniques to reduce potential areas of human stress and enhance human creative performance;
5. Print, publish or distribute to the public on a non-discrimination basis its own materials or distribute materials printed by others, utilizing television or radio to assist in achieving the purposes of the corporation;

the Executive Committee and who have paid membership dues in full for the current year. Associate members have all the privileges of membership except the privilege of voting.

3. Honorary members shall be individuals selected by the Membership Committee and approved by the Executive Committee. Honorary members need not pay membership dues and shall have all privileges of membership except the privilege of voting.

SIXTH: The manner of election or appointment of Directors of the corporation shall be provided in the by-laws.

SEVENTH: No part of the net earnings of the corporation shall inure to the benefit of or be distributable to its members, trustees, officers, or other private persons, except that the corporation shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes set forth in Article Third hereof. No substantial part of the activities of the corporation shall be the carrying on of propaganda, or otherwise attempting, to influence legislation, and the corporation shall not participate in, or intervene in (including the publishing or distribution of statements) any political campaign on behalf of any candidate for public office. Notwithstanding any other provision of these articles, the corporation shall not carry on any other activities not permitted to be

carried on (a) by a corporation exempt from Federal income tax under Section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provision of any future United States Internal Revenue Law) or (b) by a corporation, contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code of 1954 (or the corresponding provision of any future United States Internal Revenue Law).

EIGHTH: Upon the dissolution of the corporation, the Board of Directors shall, after paying or making provision for the payment of all the liabilities of the corporation, dispose of all of the assets of the corporation exclusively for the purposes of the corporation in such manner, or to such organization or organizations organized and operated exclusively for charitable, education, religious, or scientific purposes as shall at the time qualify as an exempt organization or organizations under Section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provision of any future United States Internal Revenue Law), as the Board of Directors shall determine. Any of such assets not so disposed of shall be disposed of by the Court of Common Pleas of the county in which the principal office of the corporation is then located, exclusively for such purposes or to such organization or organizations, as said Court shall determine, which are organized and operated exclusively for such purposes.

NINTH: The address, including street and number, of its initial registered office is 1819 H Street, N. W., Room 310, Washington, D. C. 20006 and the name of the initial registered agent at such address is Charles Robert Norberg, Esq.

TENTH: The number of directors constituting the initial Board of Directors is 4; they are to serve as the initial Directors until the first annual meeting or until their successors be elected and qualified: their names and addresses are as follows:

Carl Schleicher	1325 1/2 Wisconsin Avenue, N.W., Washington, D.C.
James F. Ryan, III	3001 Veazey Terrace N.W., Washington, D. C.
Jeanne Ryan	3001 Veazey Terrace N.W., Washington, D. C.
Charles R. Norberg	1819 H Street, N.W., Washington, D. C. 20006

ELEVENTH: The name and address, including street and number of each incorporator is:

Carl Schleicher	1325 1/2 Wisconsin Avenue, N.W., Washington, D.C.
James F. Ryan, III	3001 Veazey Terrace N.W., Washington, D.C.
Charles R. Norberg	1819 H Street, N.W., Washington, D.C. 20006

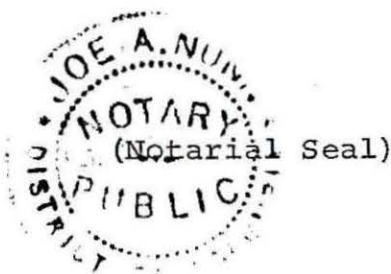
Carl Schleicher
James F. Ryan 3rd
Charles R. Norberg

Date October 9, 1973

District of Columbia:

SS

I, Joe A. Nunn, a Notary Public
hereby certify that on the ninth day of October,
1973, personally appeared before me Carl Schleicher,
James F. Ryan, III and Charles R. Norberg,
who signed the foregoing document as incorporators, and that the
statements therein contained are true.



Joe A. Nunn
Notary Public
My Commission Expires June 14, 1976

ANNUAL REPORT FOR FOREIGN AND DOMESTIC NON PROFIT CORPORATIONS

DUE ON OR BEFORE APRIL 15, 1974

Filing Fee \$1.00
 Penalty \$5.00
 Total \$1.00

DUPLICATE COPY TO BE RETAINED BY CORPORATION
 \$5.00 PENALTY DUE IF NOT FILED BY APRIL 15
 MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.
 NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT
 MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C., Corporation
 Division, 6th and D Streets, N. W., Washington, D. C. 20001

1. Name of corporation
 Mankind Research Foundation

2. Organized under the laws of (insert
 District of Columbia, State or Country)
 District of Columbia

3. If a foreign corporation, the address of its principal office in the State
 or Country where organized
 NA

4. Name of registered agent and address of registered office in the
 District of Columbia
 Charles R. Norberg, Esq.,
 1819 H St. N.W., Suite 310
 Washington, D.C. 20006

5. Brief statement of affairs conducted in the District of Columbia
 Scientific research activities to
 reduce potential areas of human
 stress and enhance human creative
 performance.

6. Name and address, including street and number of directors and officers

Director	Charles R. Norberg, Esq.	1819 H St. NW, Washington, D.C. 20006
Director	Carl Schleicher	1143 New Hampshire Ave. NW, Washington
Director	James F. Ryan, III	1819 H St., N.W., Suite 310, Washington
Director	Jeanne Ryan	1819 H St., N.W., Suite 310, Washington
President	Carl Schleicher	1143 New Hampshire Ave. NW, Washington
Vice President		
Secretary	Charles R. Norberg, Esq.	1819 H St. NW, Suite 310, Washington
Treasurer	James F. Ryan, III	1819 H St. NW, Suite 310, Washington

Date APR 12 1974

By Charles R. Norberg (signature)

CORPORATE SEAL

Its ☐ Pres. ☐ Vice Pres. ☒ Sec'y
☐ Asst. Sec'y ☐ Treas. ☐ Asst. Treas.
☐ Receiver or Trustee

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 Form RD-CS4
 Oct. 1963

FILED
 APR 15 1974
 By WJG

ANNUAL REPORT FOR FOREIGN AND DOMESTIC NON PROFIT CORPORATIONS

DUE APRIL 15, 1975

Filing Fee \$1.00

Penalty \$5.00

Total \$6.00

DUPLICATE COPY TO BE RETAINED BY CORPORATION

\$5.00 PENALTY DUE IF NOT FILED BY APRIL 15

MAKE CHECK PAYABLE TO RECORDER OF DEEDS, D. C.

NO RECEIPT WILL BE ISSUED; YOUR CHECK IS YOUR RECEIPT

MAIL REPORT TO: OFFICE OF RECORDER OF DEEDS, D. C., Corporation

Division, 6th and D Streets, N. W., Washington, D. C. 20001

1. Name of corporation

MANKIND RESEARCH FOUNDATION

2. Organized under the laws of (insert

District of Columbia, State or Country)

District of Columbia

3. If a foreign corporation, the address of its principal office in the State or Country where organized

NA

4. Name of registered agent and address of registered office in the District of Columbia

Charles R. Norberg, Esq.,
1819 H Street, N.W., Suite 310,
Washington, D. C. 20006

5. Brief statement of affairs conducted in the District of Columbia

Engage in charitable, scientific, educational and literary purposes relating to Synergistic interaction for the arts, sciences and technology

6. Name and address, including street and number of directors and officers

NAME

SEE ATTACHED LIST of Directors

ADDRESS

Director

Director

Director

President Carl Schleicher, 1143 New Hampshire Ave., N.W., Washington, D.C. 20037

Vice President Charles R. Norberg, 1819 H St., N.W., Rm. 310, Washington, D.C. 20006

Secretary

Treasurer

Date

APR 24 1975

By

Carolyn Amundson (signature)

CORPORATE SEAL

☐ Pres.

☐ Vice Pres.

☒ Sec'y

Its

☒ Asst. Sec'y

☐ Treas.

☐ Asst. Treas.

☐ Receiver or Trustee

FILED

APR 25 1975

By COLBY

DIRECTORS FOR MANKIND RESEARCH FOUNDATION

Howard Lutz, M.D.,
Ruxton Towers,
8415 Bellona Lane,
Towson, Maryland 21204

John E. Stauch,
5001 Silver Hill Road,
Suitland, Maryland 20023

Dr. Carl Schleicher
1143 New Hampshire Ave., N.W.,
Washington, D.C. 20037

Edward W. Russell
2601 Foxhall Road, N.W.,
Washington, D.C. 20007

Charles R. Norberg, Esq.,
1819 H Street, N.W., Suite 310
Washington, D.C. 20006

James F. Ryan, III
The Van Ness North Apartments
3001 Veazey Terrace, N.W., Apt. 1230
Washington, D.C. 20008

Mr. Howard M. Zimmerman
Office of the Assistant Secretary
for health,
Parklawn Building, Room 17A-30
Rockville, Maryland 20852

732695

ANNUAL REPORT FOR FOREIGN AND DOMESTIC NON PROFIT CORPORATIONS

DUE APRIL 15, 1976

Filing Fee \$1.00

Penalty

Total

DUPLICATE COPY TO BE RETAINED BY CORPORATION

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MANKIND RESEARCH FOUNDATION

2. Organized under the laws of (insert
District of Columbia, State or Country)

DISTRICT OF COLUMBIA

3. If a foreign corporation, the address of its principal office in the State
or Country where organized

NA

4. Name of registered agent and address of registered office in the
District of Columbia

CHARLES R. NORBERG, Esq.,
1819 H St., N.W., Suite 310,
Washington, D. C. 20006

5. Brief statement of affairs conducted in the District of Columbia

Engage in charitable, scientific,
educational and literary purposes
relating to synergistic interaction
for the arts, sciences and technology.

6. Name and address, including street and number of directors and officers

NAME

ADDRESS

Director SEE ATTACHED LIST OF DIRECTORS

Director

Director

President Dr. Carl Schleicher, 1640 Kalmia Rd., N.W., Washington, D.C. 20012

Vice President

Secretary Charles R. Norberg, Esq., 1819 H St., N.W., Rm. 310, Washington, D.C. 20006

Treasurer Charles R. Norberg, Esq., 1819 H St., N.W., Rm. 310, Washington, D.C. 20006

Date SEP 24 1976

By

Carl Schleicher (signature)

CORPORATE SEAL

Its ☒ Pres. ☐ Vice Pres. ☐ Sec'y
☐ Asst. Sec'y ☐ Treas. ☐ Asst. Treas.
☐ Receiver or Trustee

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SEP 27 1976

By B.D.

DIRECTORS FOR MANKIND RESEARCH FOUNDATION

Howard Lutz, M.D.,
Ruxton Towers,
8415 Bellona Lane,
Towson, Maryland 21204

Dr. Carl Schleicher
1640 Kalmia Road, N.W.,
Washington, D. C. 20012

Charles R. Norberg, Esq.,
1819 H Street, N.W., Suite 310,
Washington, D. C. 20006

Mr. James F. Ryan, III
The Van Ness North Apartments,
3001 Veazey Terrace, N.W., Apt. 1230
Washington, D. C. 20008

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- ☐ Domestic Profit
☐ Foreign Profit
☒ Non-Profit

1. Name of Corporation

Mankind Research Foundation

2. Organized under the laws of (insert
District of Columbia, State or Country)

District of Columbia

3. If a foreign corporation, the address of its principal office in the state or
Country where organized4. Name of registered agent and address of registered office in the District of
Columbia (Do not make change of agent on this form)

Carl Schleicher
 c/o Charles R. Norberg, Esq.
 1819 H St., Suite 310

5. Brief statement of business or affairs conducted in the District of Columbia

N/A

6. If a domestic profit corporation, the address including street and number,
of principal office in the District of Columbia

7. Name and address, including street and number of directors and officers

NAME	ADDRESS
Director: Dr. Carl Schleicher	1110 Fidler Lane #1215, Silver Spring, Md. 20910
Director: Mr. James Ryan	3001 Veazey Terrace #1230, Washington, D.C.
Director: Dr. D. R. Kirkham	2746 San Joaquin Hills Rd. Corona del Mar, CA 97625
President: Dr. Carl Schleicher	1110 Fidler Lane #1215, Silver Spring, Md. 20910
Vice President	
Secretary: Dr. D. R. Kirkham	2746 San Joaquin Hills Rd. Corona del Mar, CA 97625
Treasurer: Treasurer: Mr. James Ryan	3001 Veazey Terrace #1230, Washington, D.C.

DOMESTIC PROFIT CORPORATIONS ANSWER ARTICLES 8 AND 9 (Foreign corporations disregard articles 8 and 9)

8. Aggregate number of shares corporation has authority to issue

NO. OF PAR VALUE PER SHARE
 SHARES CLASS SERIES OR WITHOUT PAR

9. Aggregate number of shares issued

NO. OF PAR VALUE PER SHARE
 SHARES CLASS SERIES OR WITHOUT PAR

FOREIGN PROFIT CORPORATIONS ANSWER ARTICLES 10 THRU 13 (Do not apply to domestic corporations)

10. Date organized

11. Term of existence authorized

☐ perpetual ☐ Limited to _____ years

12. Is corporation in good standing in State in which organized?

☐ Yes ☐ No

13. Name of corporation used in the District *

* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)

Date

APR 13 1979

CORPORATE SEAL

By

(signature)

Its

- ☒ Pres. ☐ Vice Pres. ☐ Sec'y
☐ Asst. Sec'y ☐ Treas. ☐ Asst. Treas. if
☐ Receiver or Trustee if non-profit corporation

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Indicate if corporation is	
<input type="checkbox"/> Domestic Profit	
<input type="checkbox"/> Foreign Profit	
<input checked="" type="checkbox"/> Non-Profit	

1. Name of Corporation Mankind Research Foundation 2. Organized under the laws of (insert District of Columbia, State or Country) District of Columbia 3. If a foreign corporation, the address of its principal office in the state or Country where organized	4. Name of registered agent and address of registered office in the District of Columbia (Do not make change of agent on this form) Charles R. Norberg, Esq. Suite 310, 1819 H St., N.W. Washington, D.C. 20006 5. Brief statement of business or affairs conducted in the District of Columbia A non-profit Foundation for charitable, educational and scientific activities. 6. If a domestic profit corporation, the address including street and number, of principal office in the District of Columbia <p style="text-align: center;">N/A</p>
---	--

7. Name and address, including street and number of directors and officers	
NAME	ADDRESS
Director Dr. Carl Schleicher: 1110 Spring St., Silver Spring, Md.	
Director Mr. James Ryan: 3001 Veazey Terrace, N.W., Apt. 1230, Washington, D.C.	
Director Mr. Max B. Skousen, Box 449, Hatch, N.M. 87937	
President Dr. Carl Schleicher: 1110 Spring St., Silver Spring, Md.	
Vice President _____	22030)
Secretary Mr. Lawrence E. Freedman, Penthouse Suite, 10560 Main St., Fairfax, Va.	
Treasurer Mr. James Ryan, 3001 Veazey Terrace, Washington, D.C., Apt. 1230	

DOMESTIC PROFIT CORPORATIONS ANSWER ARTICLES 8 AND 9 (Foreign corporations disregard articles 8 and 9)

8. Aggregate number of shares corporation has authority to issue				9. Aggregate number of shares issued			
NO. OF SHARES	CLASS	PAR VALUE PER SHARE SERIES OR WITHOUT PAR		NO. OF SHARES	CLASS	PAR VALUE PER SHARE SERIES OR WITHOUT PAR	

FOREIGN PROFIT CORPORATIONS ANSWER ARTICLES 10 THRU 13 (Do not apply to domestic corporations)

10. Date organized _____ 11. Term of existence authorized <input type="checkbox"/> perpetual Limited to _____ years	12. Is corporation in good standing in State in which organized? <input type="checkbox"/> Yes <input type="checkbox"/> No 13. Name of corporation used in the District * <small>* (Add "corporation," "company," "incorporated," "limited" or an abbreviation thereof, if same does not appear in corporate name, otherwise answer same as 1.)</small>
--	---

Date APR 14 1978 CORPORATE SEAL	By <u><i>[Signature]</i></u> (signature) Its <input checked="" type="checkbox"/> Pres. <input type="checkbox"/> Vice Pres. <input type="checkbox"/> Sec'y <input type="checkbox"/> Asst. Sec'y <input type="checkbox"/> Treas. <input type="checkbox"/> Asst. Treas. if non-profit corporation <input type="checkbox"/> Receiver or Trustee if non-profit corporation
---	--

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ANNUAL REPORT FOR FOREIGN AND DOMESTIC CORPORATIONS

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Indicate if corporation is	
<input type="checkbox"/> Domestic Profit	
<input type="checkbox"/> Foreign Profit	
<input checked="" type="checkbox"/> Non-Profit	

1. Name of Corporation
Mankind Research Foundation, Inc.

2. Organized under the laws of (insert
 District of Columbia, State or Country)

District of Columbia

3. If a foreign corporation, the address of its principal office in the state or
 Country where organized

4. Name of registered agent and address of registered office in the District of
 Columbia (Do not make change of agent on this form)
Charles R. Norberg, Esq.
1819 H St., N.W., Washington, D.C.
20006, Suite 310

5. Brief statement of business or affairs conducted in the District of Columbia
A non-profit Foundation for charitable,
educational and scientific activities.

6. If a domestic profit corporation, the address including street and number,
 of principal office in the District of Columbia

NA

7. Name and address, including street and number of directors and officers

NAME	ADDRESS
Director <u>Dr. Carl Schleicher</u>	<u>1640 Kalmia Rd., N.W., Washington, D.C.</u>
Director <u>Mr. James Ryan</u>	<u>3001 Veazey Terrace, N.W., Apt. 1230, Washington, D.C.</u>
Director <u>Mr. Charles Norberg</u>	<u>1819 H St., N.W., Suite 310, Washington, D.C.</u>
President <u>Dr. Carl Schleicher</u>	<u>1640 Kalmia Rd., N.W., Washington, D.C.</u>
Vice President	
Secretary <u>Mr. Charles Norberg</u>	<u>1819 H St., N.W., Suite 310, Washington, D.C.</u>
Treasurer <u>Mr. James Ryan</u>	<u>3001 Veazey Terrace, N.W., Washington, D.C., Apt. 1230</u>

DOMESTIC PROFIT CORPORATIONS ANSWER ARTICLES 8 AND 9 (Foreign corporations disregard articles 8 and 9)

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9. Aggregate number of shares issued

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☐ perpetual Limited to _____ years

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13. Name of corporation used in the District *

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Date **APR 14 1977**

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By *[Signature]* (signature)

Its ☒ Pres. ☐ Vice Pres. ☐ Sec'y
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☐ Receiver or Trustee if non-profit corporation
 non-profit corporation

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CORPORATE OFFICES

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TWX (710) 822-0103

SYSTEMS CONSULTANTS, INC. was established in 1966 and has experienced continued growth in personnel, skills, experience and facilities. The staff is composed of scientific, engineering and management specialists. To support the technical staff, SCI maintains complete services in graphic arts, technical publications, management presentations and computer time-sharing facilities.

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841 Bishop Street (Suite 906)
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MANKIND RESEARCH UNLIMITED, INC.

BROCHURE

1050 31st Street, N. W.
Washington, D. C. 20007

MANKIND RESEARCH UNLIMITED

I. PHILOSOPHY AND PURPOSE

Introduction

Mankind Research Unlimited, Inc. was organized to collect, study, develop and apply extensive and proliferating data on what may be called the "frontiers of science". This data has come into being as a result of the cross-fertilization of various scientific fields which long had little or no direct contact with one another, and the re-examination of research areas which were previously ignored by academe as heterodox.

This orthodoxy of thought was also shared by many applied scientists in both industry and the government. Consequently, the probability of achieving technological and scientific breakthroughs, by the use of innovative ideas and concepts, however imaginative or esoteric they might be, has gradually diminished to the point where, in certain critical areas, the United States is falling behind existing technological state of the art in other countries of the world, notably those in Eastern and Western Europe.

Mankind Research Unlimited hopes to reverse this trend and serve both as a catalyst for and originator of new and creative ideas to stimulate research and technology applications in areas beneficial to mankind.

Based on our experience in systems concept development and technological forecasting, we feel this objective can be optimally attained through application of system engineering principles to direct, coordinate, and govern the activities and creative efforts of our multi-disciplinary team of scientists and experimentors.

Evolutionary Trends in Science

During recent years a number of discernible trends in research have been noted which point to a second Copernican era in science. While the first era, sparked by the illustrious Polish astronomer, radically altered man's cherished conceptions about the universe, the second gives promise of revising man's concepts about his own nature and relationship to the universe around him.

On what may be called the "frontiers of scientific investigation", new discoveries are being made which increasingly confirm that man not only is a product of his own environment, both in the earthly and cosmic sense, but that the biological effects of this environment can be modified by the action of energies, or force-fields, either to enhance or threaten his well-being.¹

¹ Burr, Dr. Harold S., Blueprint for Immortality -- The Electric Patterns of Life, N. Spearman, London, 1972 (in press).

The principles which have evolved from Planck's Quantum Theory and Einstein's Theory of Relativity are leading man to realize that the material universe is a uniform and interrelated whole, and helping man from within to understand the purposeful organization of living structures and the relationships between mind and matter.² The astrophysicist Dr. Gustav Stromberg, in his well-considered book The Soul of the Universe, concludes that the individual memory is probably indestructible and that the essence of all living elements is probably immortal, thus tending to confirm the existence of a World Soul or God.

The sciences of physics on the one hand, and of biology and medicine on the other, after long and artificial separation, are now beginning to come into close and fruitful interaction. Nowhere is this more apparent than in the somewhat belated recognition that everything in nature possesses electrical characteristics, and that nature has provided a delicately balanced outdoor spectrum of electromagnetic energy for man's well-being which unfortunately is not being duplicated indoors.³

Belated, too, has been the realization that living organisms, man included, are as influenced by the actions of energies or force-fields as are objects in the inanimate world.⁴ The barrier between living and nonliving matter, so long a mystery and heretofore impenetrable, is increasingly seen to be an artificial construct of the other.

Unknown Energies Postulated

It has been postulated for some time that various energies may not necessarily be associated or correlated with those on the conventional electromagnetic spectrum. A decade ago, a farseeing editor wrote: "The possibility that there are one or more biological force-field potentials constitutes the greatest challenge before the world today. Consider that the existence of an electrodynamic or psychodynamic field were established with certainty, and that the laws of its universal and its localized operations were described and used, as are the universals of particles and atoms, of planets and solar systems, this would mean that man could come to have the same tranquil confidence in life as a continuum and himself as a localization therein as does the astronaut in the fields which constitute his special certainty."⁵

In addition to the relatively new concept of biological force-fields, reference has also been made to the existence of various undefined forces in nature which

²Stromberg, Gustaf, The Soul of the Universe, Educational Research Institute, N. Hollywood, California, 1948.

³Daniels, Rexford, "New Horizons in EMC", Proceedings of the 1970 IEEE International Symposium on Electro-Magnetic Compatibility, pp. 160-67.

⁴Pressman, A. S., Electromagnetic Fields and Life, Plenum Press, New York, 1970 (originally published in Russian by Nauka Press, Moscow, 1968).

⁵"To the Reader", Main Currents in Modern Thought, Volume 19, Number 1, September-October 1962.

penetrate and permeate conductors as well as dielectrics, do not attenuate according to known formulas, cannot be measured by conventional electronic test equipment and may even have a spectrum of their own.⁶

The Human Mind as an Energy Generator

The suspected existence of a biological or psychodynamic field, as alluded to above, is another possibility which is rapidly converting itself into a distinct probability, if not a fact of hard science. The actions of the human mind -- it must be stressed, are not synonymous with the brain -- have been taken under study by pioneer researchers, some medically trained, who are revealing human potentials which only a few years ago were unknown and unsuspected. Mankind Research Unlimited is fortunate to have several of these pioneer researchers associated with our programs.

These studies imply that the human mind has and can develop greater than normal access to information by extending and enhancing the sensory abilities. Through the development of these sensory abilities, however latent they may be, to beyond those of the five recognized senses, may thusly permit man to transcend, or pass beyond the limits which contemporary science accepts as confining.

The Mind-Body Link in Health

By means of these extended sensory perceptive abilities, man is able positively to affect his bodily (somatic) actions in the same manner in which the early pioneers in psychosomatic medicine believed that certain psychological states could have a deleterious effect on the body's functioning and status.⁷

Not only have these positive effects of higher sensory perception begun to be dramatically recorded,⁸ but the possibility of their being taught, and constantly improved through autogenic feedback mechanisms, is on the threshold of becoming a reality.⁹ The control of autonomic functions, or those of the involuntary nervous system, have been well-documented -- a development which places in some jeopardy the use of the term "involuntary".¹⁰

⁶Daniels, op cit. (Note: This does not imply that we currently have identified all forces which may appear on the electromagnetic spectrum nor that we have adequately described all laws that govern natural phenomena.)

⁷Karagulla, Dr. Shafica, Breakthrough to Creativity: Higher Sensory Perception, Virginia Beach, Virginia, 1970.

⁸See, for instance, Puharich, Henry K., M.D., "The Work of the Brazilian Healer Arigo", in The Varieties of Healing Experience, The Academy of Parapsychology and Medicine, 1971.

⁹Karlins, Marvin and Lewis M. Andrews, Biofeedback -- Turning on the Power of Your Mind, J. B. Lippincott, 1972.

¹⁰Green, Elmer, Ph.D., "Biofeedback for Mind-Body Self-Regulation: Healing and Creativity", in The Varieties of Healing Experience, The Academy of Parapsychology and Medicine, 1971.

Ignored Historical Evidence Now Being Justified

Although research scientists far ahead of their time have compiled significant data about many of these phenomena for decades, their results were often ignored or, worse, maligned by their more conservative and orthodox colleagues. One of the important reasons for this stage of affairs was the physicists' and biologists' mutual incomprehension of developments in one another's fields.

.Applications requiring such understanding, and research which made trenchant use of insights from both disciplines, were oftentimes overlooked or derided.¹¹

The gap between what has been considered metaphysical and what is accepted as physical is seemingly beginning to close. More than twenty years ago a remarkable book conjoining physical and psychic data was published, but few of the world's scientists paid it any attention.¹² Out of print today, this book is now coming into repute and there are increasing demands for its republication.

Particle and plasma physicists, who are breaking up the smallest units of matter into their even smaller constituents, are coming to recognize that energy fields may be the progenitors of all that exists in the physical world.¹³ The concepts of anti-matter¹⁴ and anti-gravity¹⁵ pose deep philosophical questions as to the nature and reality of matter.

Complementing the revolutionary advances and new points of view in physics, are advances and speculations in the study of the human mind. An early pioneer published his subjective experiences in altered states of consciousness while under LSD.¹⁶ To this has been added the brilliant work of a Czechoslovak psychiatrist on the effects of LSD on the mind -- not the least practical and humanitarian of which is to relieve dying patients from their fear of the

¹¹This situation is exemplified by the work of Professor H. S. Burr of Yale University on life fields or the so-called L-Fields, which was conducted with his colleague and former student, Dr. Leonard J. Ravitz.

¹²Tromp, S. W., Psychical Physics, Elsevier Press, Amsterdam, 1949.

¹³Dyson, Freeman J., "Energy and the Universe", Scientific American, September 1971.

¹⁴Alfvén, Hannes, "Anti-Matter and Cosmology", Scientific American, April 1967.

¹⁵Carstoiu, J., "Carstoiu's Suggestions for Gravity Waves", published in Relativity Reexamined, by Leon Brillouin, Academic Press, New York, 1970.

¹⁶Huxley, Julian, The Doors of Perception, Harper (paperback).

beyond.¹⁷ Other intrepid researchers of the mind, using subjective¹⁸ and objective¹⁹ approaches are opening new vistas in the dark forest of the human psyche.

The power of psychically-gifted individuals such as the redoubtable Edgar Cayce -- who in deep trance diagnosed the ills of, and prescribed remedies for, thousands of hapless patients -- were long the object of distrust and scorn on the part of official medicine.²⁰ Recently they have begun to receive serious medical scrutiny.²¹

Trails in research, bringing together new and startling data from psysics, biology, psychiatry, religion, etc., continue to be blazed. One milestone was reached when the newly-formed Academy of Parapsychology and Medicine held its first symposium in 1971 to evaluate paranormal and unorthodox healing and seek breakthroughs which might be applied to the understanding and treatment of illness.²² These means would include hypnotherapy, magnetic healing, acupuncture, radionics or radiesthesia, and psycho-physical control of internal states.

The Scientific Revolution in the USSR and Eastern Europe

Data forthcoming from research based on new attitudes toward, and concepts for developing, human potentials does not always initially surface in well-recognized scientific journals. Nor is it exclusively the product of "Western" science. The Soviet Union, as well as certain countries in the Eastern European bloc, have been active and productive in nearly all of the above-mentioned research directions.

In both connections, we may cite, for instance, the papers published by a new British journal on a symposium on "Psychotronics" held in Prague, Czechoslovakia, in the fall of 1970.²³ Psychotronics is the Czechoslovak term for what in the

¹⁷Grof, Stanislav, "LSD Psychotherapy and Human Culture", The Journal for the Study of Consciousness, Volume 3, Number 2, July-December 1970, pp. 100-118.

¹⁸Lilly, John C., The Center of the Cyclone -- An Autobiography of Lunar Space, Julian Press, New York, 1972.

¹⁹Dean, Stanley R., "Metapsychiatry and the Ultra-Conscious", Congressional Record, 17 November 1971, Volume 117, Number 176, Washington, D. C.

²⁰Stern, Jess, Edgar Cayce, The Sleeping Prophet, Bantam Books (paperback), 1967-1971, 287 pp., and Cerminara, Gina, Ph.D., Many Mansions, A.R.E. Publishers, Virginia Beach, Virginia.

²¹See the monthly Medical Research Bulletin, Edgar Cayce Foundation, Medical Research Division, Phoenix, Arizona.

²²The Varieties of Healing Experience, Transcript of the Interdisciplinary Symposium of 30 October 1971, The Academy of Parapsychology and Medicine, Los Altos, California.

²³Journal of Paraphysics, The Paraphysical Laboratory, Downton (Wiltshire), England.

United States is called parapsychology, a discipline recently given official acceptance by the American Association for the Advancement of Science.²⁴

In the USSR the preferred term is biocommunications. As far back as the 1920s Leonid Vasiliev, a student of the famous Vladimir Bekhterev, founder of the Moscow Institute for the Study of the Brain and Nervous Activity, had termed what westerners call "telepathy", bio-radio communication. Later, the incorporation of the word "biological" into the nomenclature for various ESP phenomena became standard in the USSR.

Milan Ryzl, a scientist who emigrated from Czechoslovakia to the United States, has defined biocommunications as a new branch of science concerned with the human capability of obtaining and interpreting information from other than the recognized "normal" senses.²⁶ This science, in Soviet usage, has two subdivisions: bioinformation and bioenergetics. The first deals with the means of obtaining information through the senses, and the second deals with the energetic effects produced by humans on other matter.

That the Soviets had been actively pursuing research in biocommunications (parapsychology) was given wide publicity with the appearance in the summer of 1970 of a popular book containing over 400 references citing work and specific experiments conducted in this area by Soviet and other East European scientists.²⁷ It reveals that the USSR has more than twenty centers for the study of biocommunications and related phenomena, with an annual budget estimated to be over 12 million rubles (\$13 million) for 1967 and as high as \$21 million for 1970.²⁸

²⁴Tietze, Thomas R., "Science Officially Meets PSI", Psychic, June 1971, pp. 18-21.

²⁵Journal of Cybernetics (USSR), and others.

²⁶Ryzl, Milan, Parapsychology, A Scientific Approach, Hawthorn, New York, 1970.

²⁷Ostrander, Sheila, and Lynn Schroeder, Psychic Discoveries Behind the Iron Curtain, Prentice-Hall, Englewood Cliffs, New Jersey, 1970.

²⁸Unfortunately, these figures are not matched in the US, where only insignificant sums have been spent for this type of research. This indicates that the European Communist countries, especially the USSR, seem to be more aware of the benefits and applications of biocommunications research. Mankind Research Unlimited hopes to counter and reverse this trend so that the full fruits and benefits derived from this research are also made available to our own citizenry.

TABLE 1 CORPORATE CAPABILITIES AND EXPERIENCE -- SUMMARY

	SPECIAL SENSORS	BIOPHYSICAL ANALYSIS	MISSION- ORIENTED PROJECTS	HUMAN FACTORS	SYSTEM DEFINITION	OPERATIONS RESEARCH	SYSTEMS ANALYSIS	MEASURE OF EFFECTIVENESS	SYSTEM VARIABLES OPTIMIZATION	COMPUTER TECHNIQUE UTILIZATION
BIOPHYSICS										
BIOLOGICAL EFFECTS OF MAGNETIC FIELDS	X	X	0	✓	X	X	X	X	X	X
RESEARCH IN MAGNETO-FLUID DYNAMICS	X	X	0	✓	X	X	X	✓	✓	✓
PLANETARY ELECTROHYDRODYNAMICS	X	X	0	✓	✓	X	X	X	X	X
BIONIC STUDIES OF LIVING ORGANISMS	X	X	0	✓	✓	X	X	X	X	X
GEO-PATHOGENIC EFFORTS ON LIVING ORGANISMS	X	X	✓	✓	✓	X	X	X	X	X
BIOCYBERNETICS										
REACTIONS TO STRESS	X	X	✓	X	✓	✓	X	X	X	✓
ERRORS IN HUMAN PERCEPTION	X	✓	✓	X	✓	✓	X	X	X	✓
BIO-FEEDBACK EFFECTS IN PERSONALITY/PERCEPTION	X	✓	✓	X	✓	✓	✓	X	X	✓
PSYCHODYNAMIC EXPERIMENTS IN TELEPATHY	X	✓	✓	✓	✓	✓	✓	X	X	✓
BIOLOGICALLY GENERATED FIELDS	X	✓	✓	✓	✓	✓	✓	X	X	✓
BEHAVIORAL SCIENCES										
METAPSYCHIATRY AND THE ULTRA CONSCIOUS MIND	✓	✓	✓	X	0	0	0	0	✓	0
BEHAVIORAL NEUROPSYCHIATRY	X	✓	✓	X	0	0	0	X	X	0
ANALYSIS AND MEASUREMENT OF HUMAN SUBJECTIVE STATES	X	✓	✓	X	0	0	0	X	X	0
HUMAN PERFORMANCE TESTING	✓	0	✓	X	✓	✓	✓	X	X	✓
HUMAN UNCONSCIOUS BEHAVIORAL PATTERNS	X	✓	✓	X	0	✓	✓	X	✓	✓
PSYCHOPHYSICS										
BIOLUMINESCENT APPLICATIONS	X	X	✓	✓	✓	✓	✓	✓	✓	✓
RADIESTHESIA RESEARCH IN SOVIET UNION	X	X	✓	X	✓	✓	✓	✓	✓	✓
DOWSING INTRODUCED TO THE U.S. ARMED FORCES	X	X	X	X	✓	✓	✓	✓	✓	✓
DOWSING AS A TUNNEL DETECTION DEVICE	X	X	X	X	✓	✓	✓	✓	✓	✓
STATISTICAL EVIDENCE OF ESP AND DOWSING	X	X	✓	X	✓	✓	✓	✓	✓	✓
CORRELATION OF MAGNETIC FIELD GRADIENTS WITH DOWSING REACTION ZONES	X	X	0	X	✓	X	X	X	X	✓

LEGEND:

THIS TABLE PRESENTS THE MRU CAPABILITY WITHIN
THE VARIOUS FIELDS AND AREAS OF INTEREST

X = MUCH

✓ = AVERAGE

-- = SOME

0 = NOT APPLICABLE

III. LABORATORY AND RESEARCH FACILITIES

Mankind Research Unlimited currently has available laboratory and research facilities in various parts of the country which are used to perform experimental studies and research based on data in the MRU data bank and for the conduct of special research and applied engineering services as may be designated by the customer.

<u>Location</u>	<u>Specialty</u>
Albuquerque, N. Mex.	Bioluminescence, Psychophysics, Bionics
Bethesda, Md.	Sensor Technology and Signal Processing
Boston, Mass.	Biophysics, Plasma Physics, Magnetohydrodynamics
Los Angeles, Calif.	Bioluminescence, Psychophysics
Miami, Florida	Physiological, Biological Effects of Magnetic Fields, Acupuncture
Montclair, N. J.	Psychiatric Research, Bio-Feedback, EEG Analysis
Mountain View, Los Altos, Calif.	Advanced Sensor Technology, Cybernetics, Psycho-Acoustics, Cytology
Paterson, N. J.	Bioluminescence; Prosthetic, Therapy, and Diagnostic Techniques; Radionics
State College, Pa.	Biophysics, Biocybernetics, Bionics
Washington, D. C.	Biochemistry, Pharmacology and Physico-Chemistry
Washington, D. C.	Behavioral Sciences, Psycho-Technology Research, Biocybernetics
Washington, D. C.	Acoustic Technology, Psycho-Acoustics Research

IV. COMPANY CAPABILITIES

Mankind Research Unlimited, Inc. has unique capabilities for collecting, analyzing and evaluating scientific and technological data (both US and foreign) to assist customers in determining the impact of biosensory, bio-communication, and behavioral science applications in their area of control, interest or responsibility.

In addition MRU has and is acquiring on a daily basis a large amount of unique biocybernetics data from the USSR and Eastern Europe, which is otherwise unavailable in the United States. MRU will make this unique data available for analysis and evaluation for customers with an interest in Soviet and Eastern European biocybernetics and human engineering state-of-the-art applications. Supplementing this data will be information collected from sources in Western Europe including leading research centers located in France, Germany, Switzerland, and England.

Areas where MRU is exceptionally well qualified to study or conduct experiments are:

- Validation of current scientific progress and trends in various foreign countries and identification of research capabilities of foreign laboratories and experimentors.
- Determination of technological state-of-the-art developments and implications.
- Preparation of technological forecasts and assessments.
- Definition of systems which improve man's relationship to his environment.
- Determination of potentially beneficial health programs and innovative medical research which highlights causal or preventive factors in human illness and disease.
- Determination and identification of specific user requirements with respect to new technologies and concepts in the health, education, and welfare areas.
- Development of programs for further investigation based on the particular users' requirements where an advanced technology approach involving a multi-disciplinary effort is involved.

To be able to offer such a broad spectrum of research and analysis capability to its customers, MRU has brought together many leading scientists and experimentors in the multi-disciplinary field of biocommunications which includes the sciences of bionics, biophysics, psychophysics, psychology, physiology, neuropsychiatry, cybernetics and systems engineering. This team is available to conduct research and analyses based on the unique data available at MRU

and/or that which may be made available by the customer. Representative problem areas that could be studied and are fully within the capability of MRU include:

- Man-machine cybernetic interactions.
- Special sensory biophysical activities.
- Bioluminescent and bioenergetic emissions.
- Improvement of human performance via biofeedback techniques.
- Effects of altered states of consciousness on the human psyche.
- Innovative therapy/prosthetic/diagnostic techniques.
- Environmental effects upon biological (human or non-human) systems.
- Infrasonic and ultrasonic effects upon biological systems.
- Geopathogenic factors which induce illness.
- Brain and mind control.
- Telepathic communications or bioinformation transceiving.
- Special anesthetic techniques such as electronic anesthetic systems and acupuncture.
- Development of predictive and protective measures against natural disasters, specifically earthquakes, tornados, and hurricanes.
- Chromotherapy or music-color therapy as remedial agents to improve mental health.
- Healthful adjustment in ecology balance through aeroionization control devices.
- Enhancement of the ability of the five senses to receive and transfer information.

The above list is not meant to be all-inclusive but is presented to give some indication of the scope of MRU's capability.

V. BIOGRAPHICAL SKETCHES

MRU is pleased to be able to offer some of the leading scientists in the fields of biocybernetics, biophysics, bionics, biocommunications, psychophysics, psychology, neuro-psychiatry, health and welfare research, human systems engineering, and related scientific disciplines. Nearly all of the MRU professional staff possess either advanced graduate degrees or doctorate degrees. The individuals whose biographical sketches follow were selected in order to show a broad base of complementary expertise and linguistic ability. A number of those persons listed are highly familiar with special aspects of research and application as it pertains to the Western, but particularly to the Eastern world.

Descriptive titles of the MRU researchers listed in this brochure include:

- Advanced Diagnostic Applications Researcher
- Astro-Biophysics Scientist
- Biocommunications Editor
- Biocommunications Researcher
- Biocybernetics Researchers
- Biomedical Engineer
- Bionics Researcher
- Biophysics Researcher
- Clinical Psychiatrist
- Electromechanical Engineer
- Engineering Specialist
- Foreign Area Analyst
- International Affairs Analyst
- Medical-Biophysical Researcher
- Medical Researcher
- Parapsychology Researcher
- Parapsychology Scientist
- Psychiatry Researcher
- Psychology Researcher
- Research and Development Manager
- Research Physicist
- Research Psychologist
- Russian Technical Translator
- Russian Translator
- Senior Engineer for Advanced Technology
- Senior Technical Analyst
- Sovietologist
- Technical Analyst
- Technical Writer

Biographical Summaries

Carl Schleicher, MRU Research and Development Director and specialist in biocybernetics research, has had long experience in the analysis and evaluation of foreign scientific developments. After graduating from the U. S. Naval Academy (B.S., Electrical Engineering) in 1956, he served as a Naval line officer specializing in operations research and linguistics. He received his M.A. in Political Economics from the University of Cologne, West Germany, was engaged in advanced study at the Universities of Bonn, West Germany and Lund, Sweden and is currently a Ph.D. candidate in the Technology of Management at American University.

Before joining the staff of SCI, he was an Operations Research Analyst and R&D Engineer at the Marine Corps Development Center in Quantico, Virginia. His most recent work has been the design and development of a management system for assessing R&D projects to determine priorities, and in bionics, biocommunications, and cybernetic software systems. Mr. Schleicher has had considerable management experience as a result of his assignments both in the military and industry, and has also served as a management sciences consultant.

Dr. James C. Aller, a biomedical engineer, graduated from the U. S. Naval Academy (B.S., Electrical Engineering, 1942) and served for 20 years as a Naval officer and test pilot specializing in electronic warfare, missiles and flight systems. He received the M.A. and M.E.S. degrees from Harvard University and the D.Sc. degree from George Washington University, where he is currently an Associate Professor in the Department of Clinical Engineering. He formerly held the chair in Physical Science at the Naval War College, where he was also a member of the Advanced Technology Committee.

Experienced in the design and development of advanced medical systems and computer technology, he is a senior member of the IEEE, a member of the Society for Advanced Medical Systems and Editorial Advisor to Biocharacterist. He has been a consultant to the President's Advisory Council on Management Improvement (Health) and a Fellow in Medical Systems Development (United States Public Health Service).

Christopher Bird is a writer who came into the biocommunications field while researching a biographical study of the late Dr. Wilhelm Reich. After receiving his B.A. in Biology at Harvard University (1951) and a Certificate in Chinese at Yale University (1950) he completed the course work for an M.A. in Anthropology at the University of Hawaii (1957). He is currently a candidate for the Ph.D. degree in Russian Area Studies at American University.

After his military service, he became Washington Representative for the Rand Development Corporation of Cleveland, Ohio, whose president, Dr. H. J. Rand, was one of the first to undertake private negotiations with the Soviet Union for the purchase of technical devices and information. Fluent in French and Russian, Mr. Bird has been an editor of the Gallatin Annual of International Business and a correspondent for Time Magazine in Yugoslavia.

Dr. Charles R. Buffler, a research physicist, received his B.S. (1951) from the University of Texas and his M.S. (1956) and Ph.D. (1959) from Harvard University. After conducting experiments in spin wave analysis of ferromagnetic resonance, he went on to study the effects of weak or near-zero magnetic fields on humans and the theoretical aspects of microwave interaction with various materials. He has also experimented on a possible biomagnetic explanation for dowsing and investigated ESP phenomena. Some of this work was in collaboration with Professor Yves Rocard, Director of the Laboratory of Physics at the Ecole Normale Supérieure, University of Paris.

A Senior Member of the IEEE, Dr. Buffler has published articles in the Journal of Applied Physics, the American Journal of Physics, and elsewhere.

Dr. Edwin Boyle, Jr., Director of Research at the Miami Heart Institute, received his B.A. from the University of North Carolina (1943) and his M.D. from the Jefferson Medical College, Philadelphia, in 1945. After his internship and residency in Philadelphia, North Carolina and Virginia, he held a post-doctoral Fellowship at the National Heart Institute, where he was Senior Clinical Investigator in Metabolism. He is currently a Clinical Voluntary Assistant Professor at the School of Medicine at the University of Miami.

He has published or presented over fifty papers on lipids research and cardiovascular disease. In recent years he has taken up the study of mind-body interaction which has involved laboratory investigation of individuals possessing special sensory abilities. Dr. Boyle is a member of the AAAS, the Aldous Huxley Foundation, the New Horizons Research Foundation and many medical societies.

Dr. John Carstoiu is a mathematical physicist currently engaged in research in biophysics and bionics. He received his B.S. in Mathematics from the University of Bucharest, Romania, a higher degree in Civil Aeronautical Engineering from the Ecole Supérieure de l'Aéronautique in Paris, and his D.Sc. in Mathematics from the University of Paris. After his arrival in the United States in 1949 he taught and lectured at Johns Hopkins University, Indiana University, Columbia University and Northeastern University. After joining an electronics company in 1959, he founded his own research corporation.

His recent research has been principally in biophysics and bionics. He has received special recognition for his work in electromagnetic, magnetic and gravitational fields, and in 1965 he was awarded the "Prix des Laboratoires" by the French Academy of Sciences.

Dr. Stanley R. Dean, a clinical psychiatrist, was graduated from the University of Michigan Medical School (cum laude) in 1934 after which he took psychiatric training in four hospitals in New England and New York City. Presently a Clinical Professor of Psychiatry at the University of Florida College of Medicine, Gainesville, and Regional Psychiatric Consultant for the Erickson Educational Foundation, Dr. Dean is the Founder and Vice President of the Research in Schizophrenia Endowment and co-founder of the Stanley R. Dean International Award for Research in Schizophrenia.

Dr. Dean has published over fifty articles, the most recent of which deal with various aspects of metapsychiatry and the ultraconscious. He is a Fellow of: The American College of Psychiatrists, the American Society for Psychical Research, the American Psychiatric Association, the AAAS, the Royal Society of Medicine (Great Britain) and a Diplomate of the American Board of Psychiatry and Neurology.

Skaidrite Maliks Fallah, foreign area analyst, was brought up and completed her high school education in Latvia. She is competent in several European languages. Mrs. Fallah received her B.A. (1960) from Hunter College and her M.A. (1962) from Johns Hopkins University, both in International Relations. She has worked as a member of the U. S. government Foreign Areas Studies Division (FASD), where she was part of a multi-disciplinary team preparing handbooks on Latin America. She later worked as a Senior Research Associate in the Cultural Information Analysis Center, a division of the U. S. Army Research Office-supported Center for Research in Social Systems (CRESS), where she was responsible for research on a broad spectrum of subjects pertaining not only to peoples of Asia but to domestic problems relating to minority groups.

One of her papers, published in May 1969 by the Cultural Information Analysis Center (CINFAC) was "Research Notes on Current Activities in Selective Fields of Parapsychology".

Paul E. T. Jensen, engineer and mathematician, holds a B.S. degree in Physics (1947) and a B.B.A. in Marketing (1949) from Tulane University. He pursued further graduate work in mathematics at San Jose State College and in psychology at the University of Virginia. After WWII service in the U. S. Navy and Marine Corps, Mr. Jensen was an industrial representative at the U. S. Army Proving Ground, Fort Huachuca, Arizona and later became manager of R&D publications for the same company.

In his previous work he has specialized in the study of new technology developments in the communications-electronics fields of many countries. He has also managed the air defense task of the Army's Electronic Warfare 1975 Study.

Recently he has been reviewing East European scientific and technical journals covering research in neurology, psychiatry, biophysics, brain research and related electronic measurement techniques. Currently, he is preparing an article on research methodology in biocommunications and related fields.

Dr. Norman Korobow, psychologist, has had 25 years' experience in psychological research and its computer applications. He received his B.A. and M.A. from the City University of New York (in Psychology and Biology) and his Ph.D. from New York University (in Psychology). Dr. Korobow has been head of an interdisciplinary team working on information control system problems. He has accomplished neuro-psychiatric research in stress and personality, chemotherapy and personality and developed methods for assessing military personnel for training in advanced electronic techniques.

Mr. Korobow has taught courses in general, personnel, experimental and industrial psychology. He is a member of the American Psychological Association.

Richard B. La Tondre, advanced sensor technology engineer, has attended Jackson College, Honolulu, Long Beach State College and George Washington University. He studied Chinese at the U. S. Army Language School in Monterey, California, and Data Processing at an advanced government technical center. He has worked at the Advanced Requirements Branch of the Marine Corps Development Center in Quantico, Virginia and at other defense-related agencies.

Presently employed as a project engineer on an advanced electromagnetic assessment study being conducted by the U. S. government, he is primarily responsible for planning and implementing the advanced sensor analysis effort. He has been an electronics consultant in private industry for such state-of-the-art firms as Triangle Research Corporation; Dideen, the Associated Designers, Inc.; and the Techtran Corporation.

John E. Laurance, astro- and biophysicist and engineer, has wide training in nuclear physics, electronics, physical chemistry, engineering and medical sciences. Mr. Laurance received his B.S. at Whittier College, his M.S. at the University of Southern California and did graduate work at the University of California. He has conducted many research projects in these fields and has carried his knowledge into the development of electronic sensor systems relating to the paranormal. One of the pioneers in space research, Mr. Laurance served on advisory committees of NASA and worked as space program manager for several corporations. He has also served as acting chief scientist for the Office of Naval Research.

In 1968, he helped to organize Life Energies Research, Inc., a non-profit institution for the investigation of human energy systems and currently serves as a member of its Board of Directors and on its Research Committee. Additionally, he has made several trips to Brazil to study paranormal medical healing. Mr. Laurance is listed in various professional directories including American Men of Science and Who's Who in the East.

Dr. Andrei Lobanov-Rostovsky is a retired professor of history who has spent a lifetime avocationally studying Hindu philosophy as it relates to parapsychology and human betterment. He received his doctorate from the Institut des Sciences Politiques in Paris. After ten years as a correspondent for Baring Brothers in London, he taught European, Russian and Far Eastern history at UCLA and the University of Michigan.

Author of over 40 books and articles in his specialty, Professor Lobanov-Rostovsky continues to teach at colleges in Florida and to give lectures throughout the U. S. in the fields of ancient philosophies, transcendental meditation, and parapsychology. A Russian by birth, he commands several foreign languages.

Arthur Marcus, research psychologist, received his M.S. degree in experimental psychology and has completed course requirements for the Ph.D. at the University of Massachusetts. He has had thirteen years' experience in human factors analysis, developing training programs, and field consulting for both government and industry. He has designed many tests for the evaluation of human potential in a variety of settings and has participated in various projects relating to the design, development and evaluation of information systems.

Mr. Marcus has coordinated and directed experiments in human performance including the experimental design and preparation of apparatus and procedures, collection and analysis of data and interpretation of results both with regard to their theoretical and to their practical implications.

Dr. E. Stanton Maxey is a general medical surgeon practicing in Stuart, Florida. He received his B.S. from Wake Forest College (1946) and his medical degree from the Bowman Gray School of Medicine (1950). After interning at the University of Pennsylvania, he completed his surgical residency at the C&O Hospital in Huntington, West Virginia (1951-55). He is certified by the American Board of Surgery and is a Fellow of the American College of Surgeons.

Dr. Maxey, in addition to his surgical career, is licensed as a commercial pilot and flight instructor and has taken out, or is applying for, patents on inventions in electronics and aviation. He has conducted extensive research into the human unconscious and dreams correlating his findings with the effects of such exterior influences as electromagnetic fields, barometric changes and the positions of the moon and planets.

H. Scott McCann, a technical writer and broadcast engineer, holds a B.S. degree in English from Loyola College where he is also pursuing a master's degree in psychology. He has ten years' experience in writing and editing mechanical manuals and has worked in testing half lattice crystal filters and travelling wave tube amplifier systems. As a technician for ITT Research Institute, he worked with their Electromagnetic Compatibility Analysis Center.

Recently he has worked with TV station WETA in Washington, D. C. as the engineer responsible for operation and maintenance of equipment, conduct of air operations and network switching. He previously was a technical editor with Operations Research, Inc. and the Tate Technical Service.

Dr. Stefan T. Possony, a specialist in international affairs and in psychological strategies, came to the United States after serving as an Advisor to the French Air Ministry and the French Foreign Office in the early stages of WWII. He then worked as a Technical Consultant for the U. S. Navy and was a Special Advisor to the U. S. Air Force.

In 1961 Dr. Possony became Director of the International Political Studies Program at the Hoover Institution on War Revolution and Peace where he is currently a Senior Fellow. He has been a visiting professor at universities in Asia and Europe. His doctorate is from the University of Vienna.

Dr. Milan Ryzl is an international authority in biocommunications and para-psychology. Educated in Czechoslovakia, he was elected a member of the Czechoslovak Academy of Sciences. After arriving in the United States in 1967, he worked with Dr. J. B. Rhine at the Institute of Parapsychology in Durham, North Carolina, where he carried on original research pertaining to the influence of hypnosis on ESP.

After teaching at San Diego State College, he became a professor of para-psychology at San Jose State University. His Parapsychology: A Scientific Approach, Hawthorn, 1970, is a landmark in the field, presenting indisputable and thoroughly documented evidence that psychic phenomena exist and can be studied under laboratory-controlled conditions.

Paul Sauvin, electromechanical engineer and inventor, is also qualified as a broadcast engineer and pilot. He has worked in bionics and conducted research in engineering systems of an electronic, biometric, or bioluminescent nature. After 13 years in the aerospace industry, he became affiliated with the National Institute for Rehabilitation Engineering at St. Joseph's Hospital, Paterson, New Jersey, which designs, builds and dispenses all types of rehabilitation equipment and prosthetic devices for the severely disabled.

Currently, he is carrying out independent research into advanced medical applications specializing in the detection and analysis of "life energy" emissions, inclusive of electro-optical/electro-magnetic radiations given off by living organisms.

George Schepak, Russian-born aerospace systems engineer and scientific translator, was educated in Russia and Germany. He has worked with several California aerospace firms where he designed solid-state general-purpose computers and participated in the U. S. space program. He is currently participating in a research program at the Sepulveda (California) Veterans Administration Hospital where he is investigating the physiological aspects of healing using EEGs, EKGs and other devices for monitoring physiological functioning.

He has translated many Russian articles in the parapsychological field dealing with medicine, physics, magnetism, botany and geology. An active member of the Southern California Society for Psychical Research, he became its Director of Research in 1969. He holds a B.S. in Engineering from UCLA and a law degree from the Blackstone School of Law.

Dr. Berthold Eric Schwarz, psychiatrist (M.D.) and writer on parapsychological subjects, holds a B.A. (Dartmouth) and graduated from both the Dartmouth Medical School and the New York University College of Medicine. Prior to his entry into private practice he was a Fellow in Psychiatry at the Mayo Foundation in New York. He has conducted in-depth electrographic and clinical research on LSD, mescaline and clinical electroencephalography in the Foundation's section of Physiology and Neurophysiological studies on animals and humans.

Dr. Schwarz has studied telepathic communications in the parent-child and physician-patient relationships and has published the results of this in the recently published book by Garrett Publications, Parent-Child Telepathy. He has also made investigations of the such extraordinary paragnosts as Henry Gross, Jacques Romano, Gerard Croiset and Joseph Dunninger. He is a Diplomate of the American Board of Psychiatry and Neurology and a member of the American Electroencephalographic Society.

Albert B. Wing, advanced technology engineer, took his B.S. in Chemistry at Brown University (1943), and his M.S. in Optics and Physics from the University of Rochester (1952). After working on the Manhattan Project in WWII, he has served as a Senior Staff Scientist for an advanced systems engineering company, manager of operations research for a defense agency and as a private consultant in radiation sensing and solid-state transducer physics, X-ray and neutron diffraction, microwave systems, bionics, geophysics and chemical engineering.

Earlier he was principal physicist to the Cornell Aeronautical Laboratories where he directed research in biosensor telemetry, space-environment simulation chambers, IFF video defruiters, centralized time and frequency control and other problems. Mr. Wing's affiliations include the IEEE (Senior Member), the American Institute of Physics and the American Optical Society. He is listed in American Men of Science and was named to honorary membership in the research Society of America.

MANKIND RESEARCH UNLIMITED

INCORPORATED

1050 31st STREET, N. W.
WASHINGTON, D.C. 20007
PHONE (202) 333-6558

1 November 1972

MEMORANDUM FOR THE RECORD

TO: Selected addressees

FROM: Carl Schleicher, President
Mankind Research Unlimited, Inc.

It has recently come to my attention that various rumors concerning our operation of Mankind Research Unlimited, Inc. (MRU), have surfaced, particularly in the state of California. Such rumors, however, are to be expected when an action-oriented organization engaged in pioneering and innovative research comes on the scene, and more so if such a group is headquartered in Washington, D. C.

We, in Mankind Research Unlimited, are pleased and gratified to hear of the interest we have evoked through second and third party sources, however we cannot take credit, in any manner possible, for some of the claims made about us. Therefore, in order to set the record straight, I want to confirm the following:

We are not a front organization for any branch of the U.S. Government, or any other government for that matter. We are a private business organization, incorporated in the District of Columbia, pay federal taxes, and are forced to compete in our "free enterprise" economy for contracts and grants against other companies, whether they be profit or non-profit. We do not mind such competition in these areas of mankind research, but actually encourage and engender it.

We have never sold data, of any type, to the U. S. Government because the U. S. Government is not authorized to buy data - only finished research results. The U. S. Government data banks far surpass what any company or non-government organization could ever hope to offer. We have, however, obtained several modest government research contracts to make feasibility studies in certain human engineering and psychosomatic evaluatory areas. These appear to be "firsts" for governmental-supported "human engineering" research grants.

All of our research and resources are oriented toward peaceful applications for any work we perform, and to improving and bettering the status of mankind. In this respect, we are doing our best to carry out the promise that the authoresses, Lynn Schroeder and Sheila Ostrander, made to East European parapsychologists - to use their data and materials, and to perform parapsychology research, for peaceful purposes only. However,

it is interesting to note here that unconfirmed reports have reached us, which indicate that this may not necessarily be the reality of the situation in Eastern Europe. We hope these "reports" are proven wrong or unfounded.

We have not yet paid the girls, Lynn and Sheila, a penny for their data because, as yet, we haven't received a penny in return for their material, nor did we agree to pay the girls anything at any time. We did, however, pay out several thousand dollars to translate their material and gave priority for this effort to unemployed engineers and technical translators. Many organizations were approached to provide funds to support this venture, but none came forward. Most of the groups approached were in the parapsychology field, including my own organization, the American Society of Dowsters - the latter turning me down cold and with some admonition for making such a request in the first place. I can thank, though, the stockholders and Board of Directors of my parent company, Systems Consultants, Inc., for being the only ones with foresight enough to advance the necessary funds, and with no strings attached, to enable this material to be translated. Since our organization, Mankind Research Unlimited, was founded and set-up in a proper business manner, we are doing our best to keep it that way. With your help, we hope to keep our image as untarnished as possible, and of the highest esteem from the ethical and moral standpoint. Your dissemination of the contents of this letter would be extremely helpful in this regard.

I still feel that some of you may be of the opinion that we should, nevertheless, pay the girls, Sheila and Lynn, some sort of honorarium, etc., for their data and trouble. I wholeheartedly agree, and this will be done as soon as we derive either a return from their data, or we bring ourselves in the "black", whichever is sooner. If June 1973 is not soon enough for this, I will then, at that time, turn over some of the fees to them that I personally have received from presentations made to various groups. If this is not satisfactory, I will then try to meet whatever obligation the girls feel is satisfactory. As yet, they have made known to me no such request or obligation. This certainly speaks well for them, and I would like to think it may be due to their understanding of the difficulty it takes to start a business in these high-risk areas.

For many months I have heard the comment made, "Why doesn't our government support research in parapsychology areas, as they do in Eastern Europe?" Acting on this message, we in MRU were inspired to attempt to inquire into this. We have found that the government can, and will, support research in these areas, if such research is properly communicated to them, provides a beneficial use of tax-payers' funds, and is conducted by responsible organizations. MRU stands ready to assist any other group to obtain funds for their programs, should they so request it from us. We have found that there are opportunities available, more than we can ever hope to handle ourselves. As a last comment, it is surprising to note that in all of our endeavors to date, the only rumors or gossip we have, thus far, heard have emanated from some few within the parapsychology community, and not at all from government or the orthodox scientific sources, as one might expect.

I hope this memorandum serves to set the record straight, and that all of you can join us in many of the pending mutual research endeavors. Most of these are designed to focus on, and help further develop and apply, the works of some of the heretofore maligned or unappreciated "frontiers of science" researchers and pioneers, including:

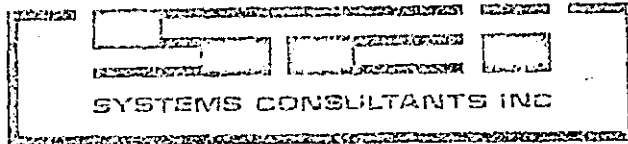
Harold S. Burr, Ph.D.
Leonard J. Ravitz, M.D.
R. B. Amber, D.C.
Oscar Brunler, Ph.D.
Gen. Henry M. Gross
John Shelley
Harold Sherman
R. Abrams, M.D.
Carey Reams, D.N.
Nikola Tesla, D.Sc.
Henry and John Moray
Ingo Swann
L. L. Vasiliev, Ph.D.
Walter Russell, Ph.D.
Gustaf Stromberg
S. V. Kirlian, Ph.D.
Cleve Backster

F.S.C. Northrop, Ph.D.
Wilhelm Reich, Ph.D.
H. Motoyama, Ph.D.
Galen Hieronymus
Verne Cameron
Ambrose and Olga Worrall, Ph.D.
Townsend Brown
Ruth Drown
Buckminster Fuller
Yogi Bhaian
K. Raudive, Ph.D.
S. W. Tromp, Ph.D.
Karl von Reichenbach, Ph.D.
Gopi Krishna
Jose Silva
Edgar Cayce

Sincerely yours,


Carl Schleicher

CS/1s



MEMORANDUM

25 September 1972

TO: D. Stevens

FROM: B. Zimmerman

SUBJECT: COMTAC Publications

REFERENCE: (a) Enclosure (1)
(b) Enclosure (2)

Mr. Carl Schleicher is signed for documents listed on Enclosure (1) with the NMC COMTAC Library. The following documents have been sighted and are in our security system.

2486 Secret Electronic Warfare (U) NWP 33 (C) 9 February 1970

2636 Secret Anti-Ship Missile Defense (U) NWP-31 12 March 1969

2647 Confidential Mission and Characteristics of U.S. Navy Ships and Aircraft (U) NWIP 11-20 (U)

4001 Confidential Logistic Reference Data (U) NWP 11-21 (E)

Document 1671 Confidential Anti-Air Warfare (32) NWP 32 dtd September 1967, has been returned which is shown on enclosure (2). If Mr. Schleicher has another original of this document, I have not found it in our log book.

Mr. Schleicher, to the best of my knowledge, has not found documents JNAP 128 (C) (superseded) and NWP 22 (B) which are unclassified and not under my supervision. At the time Mr. Schleicher finds these documents, I will contact NMC and arrange to have you sign for all accountable documents that you have a need for.


B. Zimmerman.

cc: C. Schleicher

SYSTEMS CONSULTANTS, INC.

Enclosure (2)

RECEIPT FOR CLASSIFIED DOCUMENT

DATE

28 AUGUST 1970

TO:

NAVY CONTACT LIBRARY
DEPARTMENT OF THE NAVY
CRYSTAL PLAZA
ARLINGTON, VIRGINIA 22202

FROM:

SYSTEMS CONSULTANTS, INC.
1050 31st Street, N. W.
Washington, D. C. 20007
202-333-2111

NO.
OF
COPIES

SYSTEMS
CONSULTANTS
CONTROL NO.

COPY NO.

CLASSIFICATION

DESCRIPTION

1	2280	#1	CONFID.	SHIP EXERCISES (U) FXP 3 26 APRIL 1968
1	1671	#1	CONFID.	ANTI-AIR WARFARE (U) NWP 32 SEPTEMBER 1967
1	1700	#1	CONFID.	AIR AND AAW EXERCISES (U) FXP 2 APRIL 1968

I have personally received from the sender the material, including enclosures and attachments, as indicated above. I assume full responsibility for the safe handling, storage and transmittal elsewhere of this material in full accordance with Department of Defense regulations governing classified material.

POSTAL REG. NO.

HAND CARRIED BY C. SCHLEICHER

SIGNATURE & TITLE OF RECIPIENT

Kathleen C. Haight

DATE RECEIVED

15 SEP 70

INSTRUCTIONS: White copy to be signed by recipient and returned to sender
Pink copy to be retained by recipient
Green copy to be filed by sender until return of signed original

Enclosure (1)



DEPARTMENT OF THE NAVY
NAVAL MATERIAL COMMAND SUPPORT ACTIVITY
WASHINGTON, D. C. 20360

IN REPLY REFER TO
SA 55T1:nkk
19 SEP 1972

MEMORANDUM

To: CARL SCHLEICHER
From: Naval Material Command COMTAC Custodian (NMCSA 55T1)
Subj: COMTAC Publications; custody of
Ref: (a) NAVMATINST 5511.7B of 30APR71

1. This office has record of your holding the following COMTAC publications:

SHORT TITLE	COPY NUMBER	CLASSIFICATION
OK JANAP 128(c) (Superseded)	20	UNCLASS
OK NWP 11-21(c)	2	CONFIDENTIAL ✓
OK NWP 11-20(c)	7	CONFIDENTIAL ✓
OK NWP 22(c)	10	UNCLASS
OK NWP 31	4	SECRET
OK NWP 32 ?	6	CONFIDENTIAL
OK NWP 33(c) (Superseded)	5	SECRET

2. In the event of discrepancies, please note them so we can contact you concerning them. If any of your publications have been superseded or have outstanding changes, it will be indicated next to the publication above. These publications are out of date. Please return the superseded publication and obtain a current one. If changes are indicated, they should be picked up from this office as soon as possible.

3. In accordance with reference (a) the normal "check out" period for publications is two (2) weeks. Since that period has elapsed, please sign the endorsement below and forward it to NMCSA 55T as soon as possible.

N.K. Knepper
N.K. KNEPPER

FIRST ENDORSEMENT

From:
To: NMCSA 55T
Subj: COMTAC Publications; custody of

1. I have the above listed publications under my custody and will return them to Room 682, Crystal Plaza Bldg. 6 to clear my signature when I no longer have a need for their constant use.

Signature and Date

MANKIND RESEARCH FOUNDATION

INCORPORATED

1143 New Hampshire Avenue, N.W.
Washington, D.C. 20037

DR. CARL SCHLEICHER
President

Telephone No:
(202) 785-1238

THE MANKIND RESEARCH FOUNDATION

The Mankind Research Foundation (MRF) was established in 1973 to provide an organization for scientific development and application of humanistic psychology, biocommunication, biocybernetics, biophysics, psychophysiology, educational development, cancer research, mind-body development, and other activities which impact upon the health, education, and welfare of mankind.

The Mankind Research Foundation is an independent, non-profit corporation with tax-exempt status whose activities are made available to the public through the Mankind Research Centers (MRC). A descriptive announcement flyer is available which outlines the goals, objectives, and programs of the MRC.

As in the case of any organization, its status is determined by what it does. Therefore some representative programs in which MRF is currently involved are listed:

- (a) Use of Kirlian electrophotography as a diagnostic technique
- (b) Evaluation of cancer treatment and cancer diagnostic techniques
- (c) Research on biological substitutes for chemical pesticides to control harmful insects
- (d) Investigation of acupuncture as a preventive therapy technique
- (e) Research on the bioenergetic and biophysical effects of geodesic domes and those geometric forms known as pyramids
- (f) Applied research on educational development programs such as suggestological programs known as the Lozanov Learning System
- (g) Investigation of parasensory (ESP) phenomena and its application, if any, to benefit those who may be sensory-deprived, handicapped, and disabled.
- (h) Research on the effects of biofeedback and meditation techniques to develop better voluntary control over involuntary functions and to alleviate drug, alcohol, and smoking dependencies

KOHOUTEK

"GUIDED BY THIS OMEN WE WILL PASS INTO THE LIGHT"

David Savage, 1974

Side 1: KOHOUTEK
Side 2: PARAPSYCHOLOGY
CONGRESS STOMP & ROMP

\$1.00 per record
(includes postage
& handling charges)

(tear here and mail)

To receive one or more of this initial
45 RPM recording, composed by David Savage
and produced by John R. Burr, featuring syner-
gistic sounds and lyrics inspired by reverberations
of the comet Kohoutek and waves of the Aquarian Age,
mail your check or money order today to:

MANKIND MUSIC UNLIMITED
1325½ Wisconsin Avenue, N.W.
Washington, D. C. 20007

Make your check or money
order payable to:

MANKIND RESEARCH FOUNDATION
1325½ Wisconsin Avenue, N.W.
Washington, D.C. 20007

I wish to receive _____ copies of "KOHOUTEK",
composed by David Savage and produced by
John R. Burr. I have enclosed my check for
\$ _____ (\$1.00 per record), payable
to MANKIND RESEARCH FOUNDATION.

NAME _____

ADDRESS _____

Mankind Research Foundation is a non-profit charitable, educational
and scientific organization wholly devoted to serving mankind.

For additional information, call: (202) 337-7270

COMET KOHOUTEK - a spectacular messenger of
light and knowledge for all mankind - will
be closest to the Earth at the time of the

Your travel host, Dr. Ed Ilkin
c/o Mankind Research Foundation

KOHOUTEK CELEBRATION OF CONSCIOUSNESS

JANUARY 26-27
9:00 AM - 11:00 PM

at the SAN FRANCISCO CIVIC AUDITORIUM

Washington area Group Charter Flight, Jan. 25 - 28, 1974
Departing for San Francisco 12:45 PM (Jan. 25)
Returning to Washington, DC 10:00 PM (Jan. 28)
(Flights from and to Washington National Airport)

EXHIBITSDEMONSTRATIONS***EXPERIENTIAL HAPPENINGS***

An exploration of the PSYCHOLOGICAL - PSYCHIC - SPIRITUAL
through dialogue with leaders in the field.....

ANDRIJA PUHARICHSTAN KRIPPNER**CLAUDIO NARANJO**
LAURENCE LESHAN**VOGI BHAIAN**BABA RAM DASS**ANDREW WEILL
JOHN LILLYAND MANY OTHERS

Our own KOHOUTEK consciousness-inspired song entitled, "KOHOUTEK", composed by Washingtonian David Savage, will make its debut at the Celebration. This two-sided, 45 RPM is available for \$1.00 now from Mankind Music Co., a division of the Mankind Research Foundation (MRF).

* * * * *

MRF TOTAL PACKAGE PRICE OF \$298. INCLUDES*:

ROUND TRIP AIR FARE (Washington National to San Francisco)

FREELANDIA MEMBERSHIP**

TWO-DAY CELEBRATION TICKET

*does not include lodgings

**Freelandia is a private air travel club providing
air transportation at cost between major cities
in the U. S. and abroad.

Mankind Research Foundation is a non-profit charitable, educational and scientific organization
wholly devoted to serving mankind. For additional information, call: (202) 265-1533/337-7270

Tear off and mail to:

MRF KOHOUTEK CELEBRATION
1325½ Wisconsin Ave., N.W.
Washington, D.C. 20007

Please enroll me for the Celebration for
which I am enclosing my check or money order for

\$ _____ for _____ persons.

NAME _____ ADDRESS _____

(city) (state) (zip code)

Please make check or money order payable
to: MANKIND RESEARCH FOUNDATION



METAPHYSICS YEAR END TEA PARTY

AND

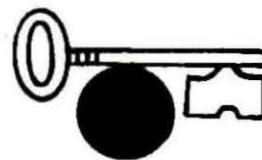
OPEN HOUSE

AT THE

MANKIND RESEARCH CENTER

1640 Kalmia Road, N.W., Washington, D.C.

SATURDAY, DECEMBER 27, 1975



Schedule of Events

- 2:00 P.M. Guest Welcome by Center Director, Dr. Carl Schleicher
- 2:15 Demonstration of radionic (non-chemical) means of insect control and electroculture technique of crop growth as reported in the best-seller frontiers of science books Report on Radionics and Secret Life of Plants
- 2:30 Biofeedback demonstration of latest equipment for migraine and tension headache control
- 2:45 Demonstration of acupuncture without needles using the new Chinese electrostimulation technique
- 3:00 Presentation: "Mind, Matter and the Human Response" by Dr. Henry C. Monteith, Frontiers of science researcher, Sandia Laboratories, Albuquerque, New Mexico. Dr. Monteith is one of the first researchers to publish a paper in the United States on Kirlian electrophotography. He is currently conducting an "eye" sight training program for the blind.
- 4:00 Video film on Lozanov Learning Method. This film shows an actual class being taught using the Lozanov Method and illustrates some of the techniques which create the rapid, relaxed learning process with high retention of material.
- 5:00 Serving of refreshments and burning of Yule Log in the Center's fireplace

Note: The Mankind Research Center is readily accessible to all parts of Washington and the suburban area with plenty of free parking available.

Requested donation: \$2.00.



S A F E

Society for Application of Free Energy -
An independent nonprofit organization devoted
to applying dowsing, radionics, radiesthesia,
and healing to serving and meeting the needs
of mankind.

ANNOUNCEMENT OF WINTER 1972-73 EVENTS - Winter Meeting

TIME: 2:00 to 4:30 P.M., 21 January 1973 (Sunday)

PLACE: HAMPSHIRE MOTOR INN LANGLEY ROOM
7411 New Hampshire Avenue
Langley Park, Maryland

- PROGRAM:
- a) Radionics demonstration and discussion of proposed radionics projects.
 - b) Planning of dowsing archaeological expedition to Civil War battlefields, and to Cheops Pyramids, Egypt. (NOTE: Members of SAFE have made contact with a group of scientists who are travelling to Egypt in the Spring, and who will be given training in dowsing so that they may use this as an investigatory tool in their search.)
 - c) Discussion of healing projects. (NOTE: As a direct result of the last SAFE meeting, a rather miraculous healing took place to one of the SAFE charter members, which was quite fitting and appropriate to the mission of SAFE. Details on this will be given at the next meeting.)
 - d) Demonstration of electrometric techniques of measuring ultraconscious states and psychotechnological means of achieving higher states of consciousness and creative performance.

Please note that SAFE was created by members of former dowsing, healing and radionics groups, in order to develop through SAFE a greater appreciation of ethics in these frontier areas, to promote action-oriented programs for its membership, and to make the SAFE organization truly national, and not subject to the control of any local or sectional interest group. The prime objective of SAFE is to help mankind help itself, rather than help one's ego, as has been noted to be the case with some other groups and individuals who are engaged in these activities.

As a result of the fine response received from the initial SAFE mailings, interest has been shown in the formation of SAFE Chapters in other states. For those wishing to do so, you may write to the SAFE secretary for further details in setting up a SAFE group in your area.

Membership in SAFE may be obtained by sending \$10.00 to Mrs. Edith Serbin, SAFE Administrative Secretary, 1036 Ruatan Street, Silver Spring, Maryland 20903 (Phone 301 - 439-6739).

MANKIND UNLIMITED CHAPTER

AMERICAN SOCIETY OF DOWSERS, INC.

SERVING:
WASHINGTON D.C.
MARYLAND
VIRGINIA

8 May 1972

SPECIAL ANNOUNCEMENT

Due to the passing on of John Shelley, President of the American Society of Dowsters, on 4 May 1972, all scheduled chapter activities are hereby cancelled during the month of May.

It is hoped that all chapter members will remember John Shelley in their thoughts and prayers.

Those wishing to defray the cost of our chapter's floral wreath can send donations to either me or Harry Barnes, the chapter Secretary.

Our treasure-seeking trip to Culpepper, Virginia will be re-scheduled from 13 May to 10 June (Saturday) with the alternate date of 17 June in case of inclement weather. Meeting times and places are:

10:00 AM	Crystal Plaza Apts. entrance, 2111 Jefferson Davis Hwy., Arlington, Va.
10:30 AM	Parking Lot, Thomas Jefferson Library, 7145 Arlington Blvd., Falls Church, Va.
12:00 Noon	Kelly's Ford Bridge, Route 620, Rappahannock River, Remington/Culpepper, Va.

Note: Bring dowsing devices, shovels, picks, cameras, and a picnic lunch. Washington Evening Star reporter will be present and doing a feature article on our trip.

Carl Schleicher
Carl Schleicher
Chapter President
(703) 521-7011

MANKIND LEARNING UNLIMITED TAPE SERIES

All tapes are cassettes of high quality, one-hour duration, and are made by professionals in the fields of educational and metaphysical development. All tapes priced at \$10.00. Full refund made if tapes are not satisfactory for purpose intended and if returned to MLU within fifteen days of receipt.

Developing Control (C) Series

- | | | | |
|-------|-----------------|-------|---------------------|
| C - 1 | Tension Control | C - 4 | Controlled Smoking |
| C - 2 | Weight Control | C - 5 | Stop Smoking |
| C - 3 | Sleep | C - 6 | Controlled Drinking |
| | | C - 7 | Stop Drinking |

Meditation Aides (M) Series

- M - 1 Chanting for Meditation by Christopher Hills
- M - 2 Creative Relaxation by Tilak
- M - 3 Living or Existing by Rev. Robert Wallet

Spiritual Guidance (S) Series

Six-lesson series prepared by Rev. Robert Wallet, Church of Unity, Westlake, Ohio.

- S - 1 One God (Side 1), Finding God (Side 2)
- S - 2 The Nature of the Name (Side 1), The Coming of the Kingdom (Side 2)
- S - 3 The Perfect Exchange (Side 1), Guidance to Godliness (Side 2)

MANKIND LEARNING UNLIMITED
1143 New Hampshire Avenue, N.W.
Washington, D.C. 20037

Please send me the following cassette tapes at \$10.00 each (10% discount on orders over \$30.00) plus 75¢ for postage and handling:

- | | | | | | | |
|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| <input type="checkbox"/> C-1 | <input type="checkbox"/> C-2 | <input type="checkbox"/> C-3 | <input type="checkbox"/> C-4 | <input type="checkbox"/> C-5 | <input type="checkbox"/> C-6 | <input type="checkbox"/> C-7 |
| <input type="checkbox"/> M-1 | <input type="checkbox"/> M-2 | <input type="checkbox"/> M-3 | <input type="checkbox"/> S-1 | <input type="checkbox"/> S-2 | <input type="checkbox"/> S-3 | |

I enclose \$_____. (Make checks payable to Mankind Research Unlimited.)

NAME _____

STREET _____

CITY _____ STATE _____ ZIP _____



7775 17th Street, N.W.
Washington, D.C. 20012
Telephone (202) 882-4002

Dear Physician:

Please note the short article below entitled "Biofeedback in Childbirth and Stroke".

Mankind Research Unlimited has been providing biofeedback service in the Washington area for more than a year. We would be pleased to train your obstetric patients in deep relaxation at one of our regular weekly classes for one hour a day beginning about six weeks prior to delivery. The cost of each hourly session would be \$10 (or \$15 for husband and wife).

Let us help your patients prepare for a healthier, tension-free delivery through the use of this effective technique.

Some descriptive materials on related activities are enclosed for your information.

Sincerely yours,

SCIENCE NEWS, VOL. 108

JULY 12, 1975

BIOMEDICINE

Carl Schleicher
Carl Schleicher, Ph.D.
President

Biofeedback in childbirth and stroke

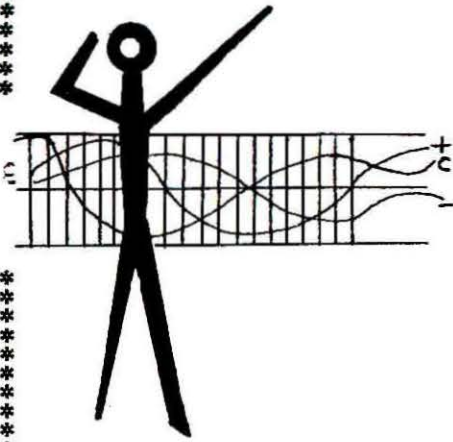
Using the mind to control involuntary actions of the body is nothing new to yogis. But only during the past several years have physicians encouraged controlling the mind with the help of biofeedback machines.

For example, physicians have found that biofeedback can help relieve muscular tension (SN: 2/16/74, p. 104). Now Robert H. Gregg, an obstetrician at Loma Linda University, has found that biofeedback can help women through childbirth. And J. V. Basmajian and his rehabilitation group at Emory University have found that biofeedback can help stroke patients.

Gregg first explored the value of biofeedback in labor when a patient whose husband makes biofeedback monitors asked whether she could use biofeedback to help her prepare for labor. Gregg agreed; the results were impressive. Gregg has since helped 30 patients use biofeedback in learning how to relax for childbirth. More than half of them required no medication at all during the first part of labor.

Basmajian's group had 10 stroke patients suffering from chronic foot-drop exercise for five weeks, and 10 others exercise and use biofeedback training. The latter group regained twice as much motion with their feet as did the first group. Three of them are now able to walk without the use of braces.

Biological Rhythm Charts



Now, the science of Bio-Rhythm can give you an Advance Timetable of your highs and lows, good days and bad days, for the next 12 months.

This service is not astrology, not a forecast, but a scientific series of calculations to prepare and alert you daily to your ever changing physical, mental, and emotional potentials.

Scientifically investigated under a National Institutes of Health grant, this personal analysis service consists of the 23-day Physical Cycle governing strength, endurance, and health; the 28-day Emotional Cycle influencing moods, emotional happiness and creative ability; and the 33-day Intellectual Cycle controlling mental alertness, reasoning, and ease of learning.

MRU NOW OFFERS THREE BIO-RHYTHM SERVICES:

1. Easy-to-read Calendar Form projecting twelve months ahead. PRICE: \$5.00
2. Body Time Graphical Analysis Report which includes a daily interpretation and commentary on yearly biorhythmic state. PRICE: \$10.00
3. In-depth Biorhythm Chart Reports which provide detailed text and daily graphical analysis of your own personal situation. PRICE: \$20.00

The detailed graphical analysis reports have been programmed by the world-renowned expert, George Thommen. As a result, it is now possible to enter your exact date of birth into the computer and receive a personal bio-rhythm chart of your individual cycles for every single day of the coming year, as well as a print-out in words of what you can do to make the most of the good days and minimize the bad.

NOW....AN ADVISORY TECHNIQUE SO THAT YOU MAY ...

- plot your life to coincide with your potential
- face a challenge when most likely to succeed
- predict high and low stress levels
- guide your scheduling of major events
- use chart as psychological assessment tool

For a computerized analysis and personal charting of your own or another person's biological rhythm over a one-year period, send date of birth, with appropriate fee for desired service (\$5, \$10, or \$20) with 50¢ shipping and handling fee to:



GROUP OR TEAM PERFORMANCE AND MULTI-YEAR PROJECTIONS ARE ALSO AVAILABLE UPON REQUEST

MANKIND RESEARCH UNLIMITED, INC.
1143 New Hampshire Avenue, N. W.
Washington, D. C. 20037
(202) 735-1237



MANKIND LEARNING UNLIMITED

PRESENTS

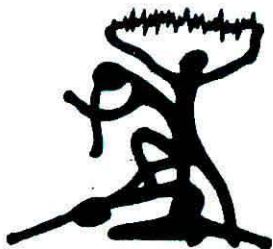


ALPHA-THETA MEDITATION (ATM)

WE ARE TRULY ALIVE TO THE EXTENT THAT WE ARE TRULY AWARE! Alpha-Theta Meditation is a twelve-week program of increasing awareness and self-control through autogenic training, a method of body relaxation; Zen, a highly effective meditation method for "Mindfulness"; and biofeedback training, a technique of monitoring and learning to control electrical brainwave activity. By combining these methods of mental and spiritual development, ATM has perfected an excellent course of study that teaches each student to become his own

teacher by learning to utilize the convenient laboratory of the inner mind. ATM classes meet once each week for twelve weeks. Average class time is 1-1/2 to 2 hours.

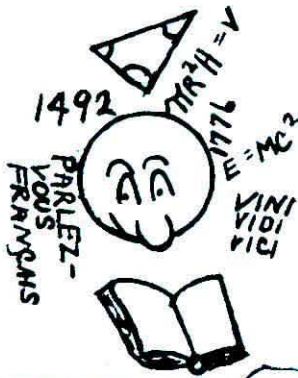
INTRODUCTORY BIOFEEDBACK WORKSHOPS



Mankind Learning Unlimited invites you to attend a workshop in biofeedback history, principles, and practice. Biofeedback training is the procedure which allows us to tune into our bodily functions and learn to control them. This Saturday seminar includes firsthand experience under the guidance of a trained instructor. The sessions are designed to give you a broad overview of this evolving science as well as techniques for self-regulation. (10:00 a.m. to 5:00 p.m.)

CREATIVE LEARNING COURSE

Based on the Lozanov Learning Method (Suggestology)



Acquiring knowledge and utilizing it is perhaps one of the most important processes of life. Mankind Learning Unlimited is researching new techniques for enhancing the learning ability. CREATIVE LEARNING is a compilation of these relatively unused learning exercises which have been demonstrated to stimulate the learning faculty of the human brain. There is a consensus in the psychology of learning from William James down to the present day that, at best, we use only ten percent or less of our real brain/mind potential. Attend this workshop and learn how you can use more. (Saturday & Sunday, 10:00 a.m. to 5:00 p.m.)

TO RESERVE YOUR PLACE, detach and return this form to MANKIND RESEARCH UNLIMITED, 1143 New Hampshire Avenue, N.W., Washington, D.C. 20037. Telephone (202) 785-1237.

- ☐ ALPHA-THETA MEDITATION--\$125 (\$50 deposit required)
- ☐ SATURDAY INTRODUCTORY BIOFEEDBACK WORKSHOP--\$25 fee in advance
- ☐ CREATIVE LEARNING WEEKEND COURSE--\$90 (\$40 deposit required)

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

DAYTIME TELEPHONE _____ EVENING TELEPHONE _____

Each course begins upon full enrollment of ten students; we will notify you. Please make checks payable to MANKIND RESEARCH UNLIMITED, INC.

ALPHA THETA MANAGEMENT

- I. Introduction
 - A. The business world today
 - 1. our technological age
 - 2. stress and society
 - 3. overconcern with achievement & competition (Type A)
Seek balance (Yin & Yang)
- II. How to overcome stress
 - A. Controlled Relaxation
 - B. Biofeedback
 - 1. GSR training
 - C. Exercise
 - D. Nutrition
- III. How to relax
 - A. Technique exercise #1
 - B. GSR feedback using Tech. #1
 - C. Exercise technique #1
 - D. Controlled relaxation
- IV. How to exercise your body
 - A. In the office exercises
 - B. Exercising at home
 - C. How to exercise sitting down
 - D. Breath exercises
 - E. Psychocybernetic exercises

MANKIND RESEARCH UNLIMITED, INC.
7775 - 17th STREET, N.W.
WASHINGTON, D.C. 20012
(202) 882-4000

ALPHA-THETA MEDITATION

- I. ALPHA-THETA MEDITATION is a ten-week program designed to teach people how to overcome stress and tension through the use of biofeedback training and meditative exercises. The course is divided into three independent sections. The first section includes:

1. Autogenic training -- A method of deep body relaxation
2. Biofeedback training -- The use of the Galvanic Skin Response machine, which monitors the nervous system via skin response and enables control over one's emotions
3. Introduction to Zen meditation -- A highly effective meditative method for developing total awareness

This section will be a five-hour intensive introduction held on a weekend and will prepare the student for the next section. Cost: \$35.

- II. The second section includes:

1. Taoist philosophy and meditation technique -- Quietude
2. Buddhist philosophy and meditation technique -- Mindfulness
3. Yoga philosophy and meditation technique -- Raja Yoga
4. Biofeedback training -- The use of the electroencephalogram (EEG), which monitors alpha and theta brain waves. Through this machine one learns to produce states which result in particular brain waves and produce deep meditative levels, altered states of consciousness, intuitive insight, and development of creativity.

This section will be held one night per week, two hours a night, for six weeks and will serve as introduction to the last section. Cost: \$60.

- III. The third section includes:

1. Biofeedback training -- Continued use of the GSR and EEG
2. Advanced meditation techniques -- Pranayama, asana, mantra and mandala--continuation of mindfulness
3. The nature of ideas and knowledge
4. Generating psychic energy
5. Memory enhancement
6. Ancient scriptures compared

This section will also be open to other advanced meditation students. It will be held one night per week, two hours a night, for four weeks. Cost: \$40.

The total cost for the course is \$135. Inquire about discounts for students and families.



alpha theta meditation

TM

ATM

TWELVE-WEEK INTENSIVE
COURSE IN ZEN AND YOGA
MEDITATION WITH
BIOFEEDBACK REINFORCEMENT

SCIENCE AND MEDITATION ...

Deep alpha level is a specific altered state of consciousness that is characterized by expanded introspective awareness, deep tranquility, and inspiration. EEG biofeedback training has taught many students to enter into alpha levels of consciousness within two to three hours of training, thus allowing them to remain at one level at a time.

With a little more training, usually three to six hours, a student using appropriate meditation techniques can reach a deeper alpha state and a higher amplitude level of consciousness. This type of EEG biofeedback training may give Western man the basic impetus necessary to learn Zen meditation. EEG alpha biofeedback training is an empirical tool that can be used to hasten the otherwise slow meditative process.

By studying the ancient philosophies behind these meditative practices, ATM teaches each student to become his own teacher by learning to utilize the convenient laboratory of his own consciousness.

Classes are scheduled for Saturdays at 12:30 and 3:00 p.m.; Mondays, Tuesdays, Wednesdays, and Thursdays at 7:30 p.m. Course will begin upon a full complement of ten students.

COURSE FEE: \$135.00

TO RESERVE YOUR PLACE, DETACH AND RETURN THIS FORM TO MANKIND RESEARCH UNLIMITED,
1143 New Hampshire Avenue, N.W., Washington, D.C. 20037. Telephone 785-1237.

Name _____

Address _____

City _____ State _____ ZIP _____

Daytime telephone _____

A deposit of \$50.00 must accompany registration. The remaining \$85.00 is due at the first class period. Make checks payable to MANKIND RESEARCH UNLIMITED, INC.



SAFE

THE SOCIETY FOR THE APPLICATION OF FREE ENERGY

1143 New Hampshire Avenue, N.W.
Washington, D.C. 20037

SPECIAL NOTICE

DOWSING FIELD TRIP
15 June 1975 (Sunday)

This is another in a series of field trips whose principal object is to apply dowsing to locate the Civil War payroll treasure which is reportedly buried on the banks of the Rappahannock River, just south of the Kelly's Ford Crossing, Virginia. The source of this information is from the history of the Civil War and the readings of Edgar Cayce. SAFE members, their guests, friends, and associates are invited to come on this outing in search of archeological finds and treasures.

The meeting times and places for this trip are 15 June (Sunday). A minimum number of cars will be used to reach this site to conserve energy.

- 10:00 a.m. Crystal Plaza Apartments, entrance,
2111 Jefferson Davis Highway, Arlington, Virginia
(across from Hospitality House Motel, US 1)
- 10:30 a.m. Parking lot, Thomas Jefferson Library,
7415 Arlington Boulevard, Falls Church, Virginia
(Rte. 50, just inside Beltway)
- 12:00 noon Kelly's Ford Bridge, Route 620, Rappahannock River
Remington/Culpepper, Virginia

Note: Bring dowsing devices, shovels, picks, cameras, and a picnic lunch. It is expected that reporters from the news media may be present and writing articles on this trip, as they have done in the past. Wear clothes suitable for an outing, and do not forget your favorite dowsing rod.

The date for this outing has been selected according to the instructions of Edgar Cayce, who first drew attention to the site and its treasure. This will be a serious attempt to comply with all known instructions for locating the payroll and, as such, will provide an opportunity for overnight camping on Saturday night for those who wish to test the Cayce readings, which suggest waiting until after moonset (10:30 p.m.) on the 3rd or 6th day following the new moon when "things are quietest" and emanations should be visible from the metals. (Additional excerpts from the Cayce readings will be read during the picnic lunch on the 15th.) Those who prefer to spend the day in general dowsing and early return to Washington are most welcome to do so.

Membership in SAFE may be obtained by sending \$10.00, payable to SAFE, a non-profit organization, to the above letterhead address.

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RADIONICS, RADIESTHESIA, AND HEALING TO MEETING AND SERVING THE NEEDS
OF MANKIND

MANKIND RESEARCH UNLIMITED

INCORPORATED

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B I O F E E D B A C K

Mankind Research Unlimited (MRU) has developed a research and applications program to explore the use of biofeedback as a therapeutic and remedial educational tool. The goal of this program is to comprehensively, scientifically, and systematically investigate the claims made by biofeedback proponents and manufacturers so that the benefits derived from this investigation can be applied to human problem areas.

The term "biofeedback" was first coined in 1969 at a meeting of a group of frontiers of science researchers that rather promptly thereafter named themselves the Biofeedback Research Society. Biofeedback, according to Medical World News, refers to any technique using instrumentation to give a person immediate and continuing signals on changes in bodily function that he is not usually conscious of, such as fluctuations in blood pressure, brain wave activity, or muscle tension. Theoretically, and very often in practice, the information input enables him to learn control of the "involuntary" function.

Sufficient laboratory and experimental evidence has been collected to indicate that biofeedback methods can enable an individual to regulate the following physiological functions: heart rate, skin temperature, blood flow to various parts of the body, brain wave activity (EEG), muscle tension (EMG), galvanic skin response (GSR), etc. The clinical and educational applications for such instrumentation appears to be virtually limitless. This situation has perhaps prompted Dr. Elmer Green of the Menninger Clinic in Topeka, Kansas, to predict that upwards of 80% of human medical problems will be treatable by feedback instruments within the next few decades. Already a variety of disorders are responsive to feedback training: high blood pressure, anxiety, epilepsy, muscle spasm, muscle paralysis, migraine headaches, tension headaches, digestive tract disturbances, subvocalization, stuttering, hyperkinesis, and other learning problems (source Medical World News, 9 March 1973, and Autogenic Systems Inc. feedback booklet).

MRU is primarily interested in biofeedback because it may be more effective than chemotherapeutic (drug treatment) means in controlling certain physiological conditions, offers no toxicity when applied, and assists the individual in finding a better "norm" rather than treating only a symptom.

Presently MRU's efforts are confined to evaluating biofeedback devices of various manufacturers and in the prototype development of its own. Based on the Ravitz-Burr electrodynamic theory of matter, MRU is developing a prototype biofeedback device that, unlike others on the market, provides feedback through voltage potential gradients measured between two points on the body, and which appears indicative of various altered states of consciousness, relaxation, anxiety, stress, etc. When this device completes R&D tests, and is ready for production, a formal announcement will be made. A modification of this technique is now being tested at a Washington, D. C. GYN/OB clinic to determine the feasibility of providing instantaneous feedback on ovulation and fertility timing as an alternative to other birth control techniques.

Current MRU plans for biofeedback applications include:

- *outfitting of a mobile biofeedback van
- *operation of a biofeedback center for tension and stress reduction
- *introduction of biofeedback training into correctional and rehabilitative institutions as remedial agents
- *presentation of seminars and programs on biofeedback
- *conducting pilot studies with medical personnel and other "doctors of the mind and body" so that they may have another eventual treatment alternative and therapeutic aid
- *market and distribute biofeedback equipments as permitted under the FDA and in accordance with medical standards
- *serve as a focal point for coordinated biofeedback research

Your experience and views on biofeedback are requested and will be helpful in assisting MRU in best orienting our activities in this area.

Aura Seen With Kirlian Photography Is Called Diagnostic of Disease

Detection of Disease May Be Assisted by Kirlian Photo's Aura

Internal Medicine News Service
NEW YORK — Kirlian photography, a technique of picturing an unexplained aura surrounding animate objects, may provide a tool for the early detection of disease, Dr. David Sheinkin said at a symposium on new dimensions of healing presented by the Foundation for Parasensory Investigation.

Changes of the extent and density of the flared corona, seen only in Kirlian photographs, may herald the onset of illness before any physical symptoms develop, said Dr. Sheinkin, of the Institute for Bioenergetic Analysis and director of adult services at the Rockland County Community Mental Health Center, New York.

In normal individuals, the corona is full and completely surrounds the image of a fingertip or hand photographed with this technique. During illness, the corona is faded and incomplete.

A blank space on the corona indicates that the individual may develop symptoms. This interruption of the flared ring grows in size as the disease progresses and gradually closes again during recovery, Dr. Sheinkin said.

However, these findings are "speculative at this point," he said.

Dr. Sheinkin could not explain the connection between pathology and the coronas seen on Kirlian photographs. Others attending the conference explained the auras as manifestations of human energy fields.

Kirlian photography does not make use of a camera or a lens. Rather, an electric current is run through an object placed on film.

The high-voltage radiation field produces a flared corona on Kirlian photographs of some living objects, such as leaves or body parts. A less pronounced corona is seen surrounding inanimate objects.

The technique was developed in Russia in 1939 by Semyon Kirlian, who reported that photographs of his own hand changed

in quality shortly before he developed physical symptoms of a disease, Dr. Sheinkin said.

Dr. Sheinkin and his associates have studied whether the coronas seen in Kirlian photographs change during illness and whether the changes are specific or non-specific for a given illness.

Photographs taken of the same patient during the course of an illness were compared, as well as photographs taken on the same day of patients and normal controls.

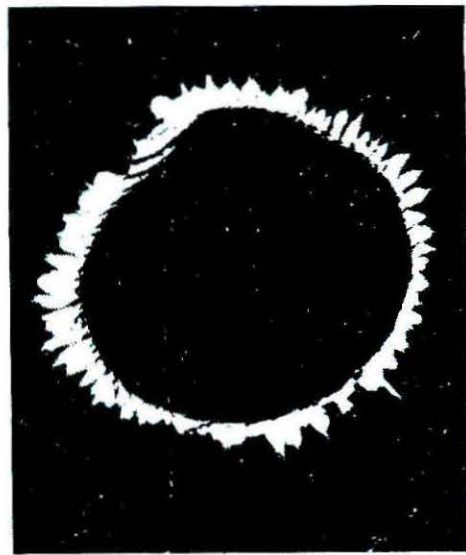
Alcohol consumption causes the corona to flare noticeably, Dr. Sheinkin said.

In manic psychosis, a partial corona surrounding the fingertip, and a "speckling effect" on the image of the finger where the finger touches the film have been noted.

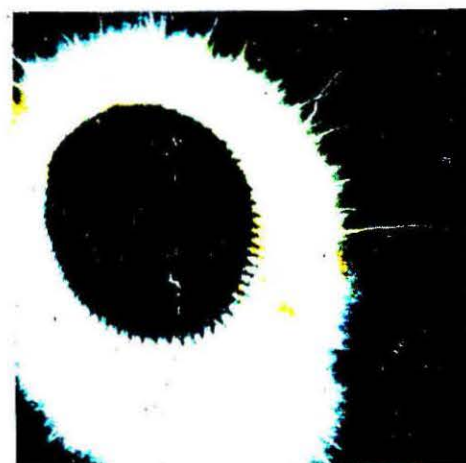
The incomplete corona fills out as the patient improves, he said.

In one patient with pneumonia, neither the fingertip nor the corona were visible on a Kirlian photograph.

In other illnesses, the normally distinct borderline between the physical image and the aura surrounding it becomes fuzzy, Dr. Sheinkin said.



Electrophotographs of leaf (above) and fingertip (top right) show the typical corona energy discharge patterns of Kirlian photography. A fingertip of a person in the alpha meditation state is seen (right) as measured by electroencephalography. The soft, even, diffuse pattern of the corona is characteristic of the super state of awareness and relaxation associated with alpha wave production. Electrophotographs can be made with 35 mm Kodachrome II standard daylight film. A high AC frequency electrostatic field power supply attached to a nonferrous plate serves as a light source for the object to be photographed. (Photographs courtesy Mankind Research Unlimited, Washington, D.C.)



RESEARCH OPPORTUNITIES IN ELECTROPSYCHOGRAPHY

Mankind Research Unlimited, Inc. (MRU), through its government and privately-funded life-energy research programs, has confirmed the feasibility of the applications cited in the article, and the remarks made by David Sheinkin. MRU is now broadening its research program in this area, now termed "electropsychography (EPG)" and hopes that, by adding "bioholograms (BHG)", a new dimension and useful tool will be added for diagnosticians—whether they be scientific or psychic.

To conduct your own "EPG's" and to photograph the apparent aura phenomena we offer the following services:

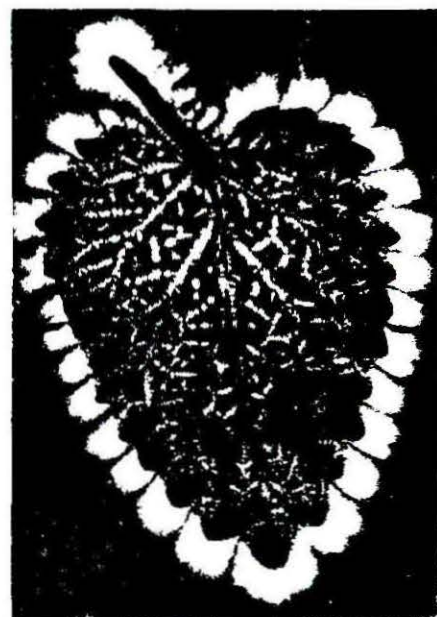
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In view of the many requests for information and details on Kirlian photography that have been received by Mankind Research Unlimited, Inc., we are pleased to now make available to the general public electrophotography kits for research purposes.

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A) Data package containing the description of the electrophotography circuitry and power supply, translations of several relevant Russian articles by Dr. Kirlian and Victor Adamenko, and description of how-to-do-it, step-by-step "Kirlian" photography procedures by Mankind Research Unlimited technical consultants Henry Monteith and Paul Sauvin. PRICE: \$4.75

B) Power supply equipment (light duty) for 10-minute duration and intermittent operation.
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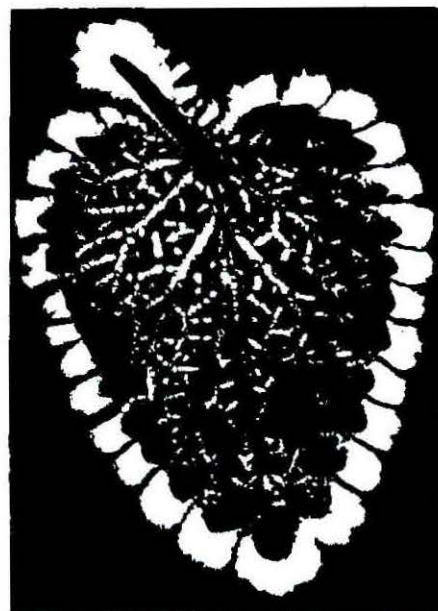
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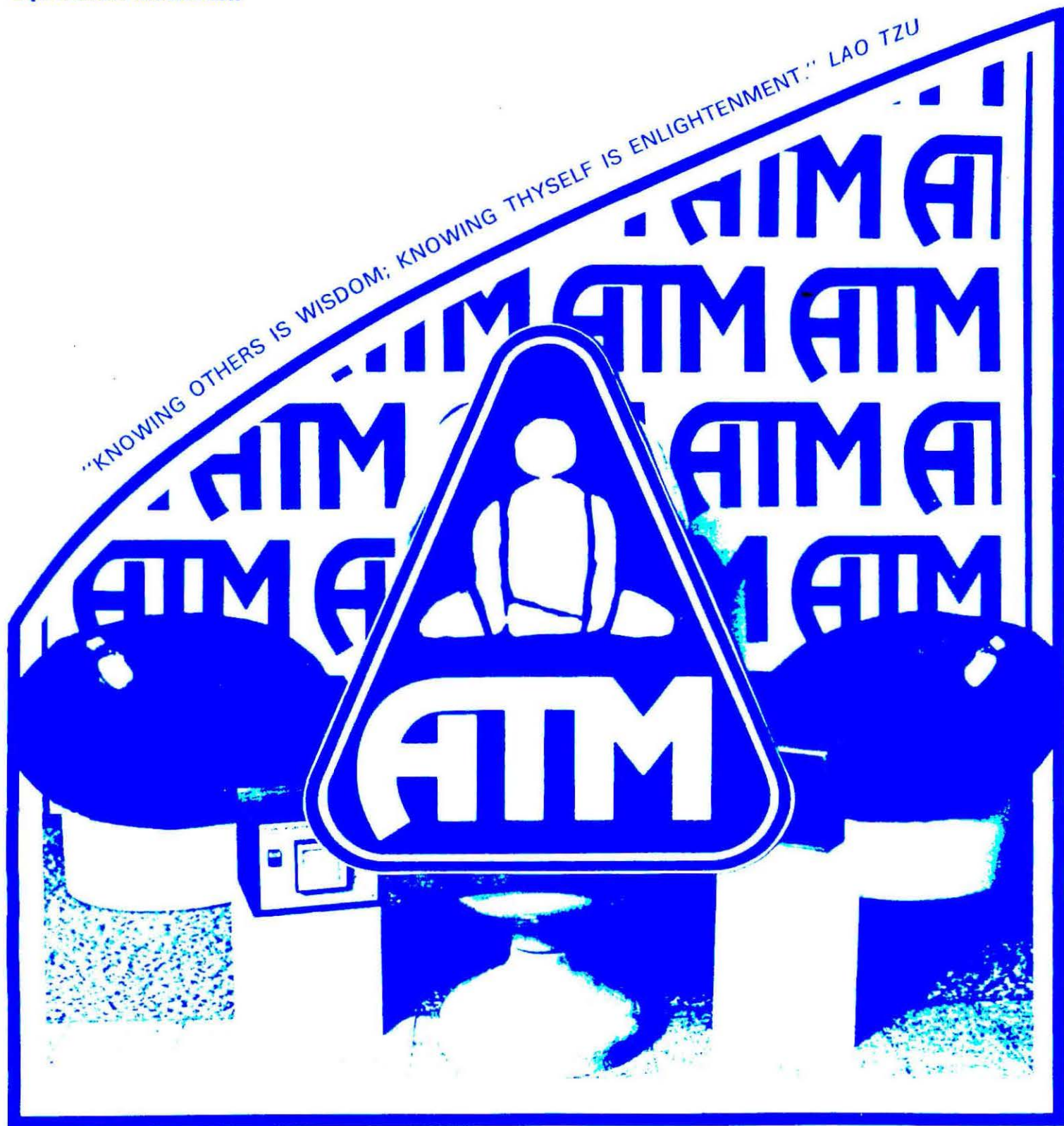
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alpha theta meditation

"KNOWING OTHERS IS WISDOM; KNOWING THYSELF IS ENLIGHTENMENT." LAO TZU



science and meditation...

Biofeedback is the process of using an instrument or device to give us instant information about our bodies. This is usually information we are not normally aware of, such as skin and body temperature, muscle tension, brain waves and heart rate. A thermometer and stethoscope are typical biofeedback devices. An electroencephalogram (EEG) is a device that amplifies and monitors brain waves. These minute electrical impulses produced by the brain give us an indication of the level or depth of consciousness.

Recently science has taken an active interest in meditation. It was discovered by Dr. Akira Kasamatsu and Dr. Tomio Hirai in the 1960's that the brain wave patterns of Zen masters shifted from beta waves (or outer consciousness waves) to unusually high amplitude alpha waves (or inner consciousness waves) with a strength of around 40 to 70 microvolts. This indicates a tremendous increase in focussed awareness.

Further scientific experiments revealed that the deep alpha level is a specific altered state of consciousness that is characterized by expanded introspective awareness, deep tranquility, and creativity.

Many respected scientists who are studying parapsychology believe that psychic powers and extra-sensory-perception (ESP) occur at these deeper levels of consciousness, notably the introspective alpha state. We often experience psychic perception only briefly because our mind shifts too rapidly from one level of consciousness to another.



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Biofeedback training makes it possible for a student to be sure that he is reaching these altered states quickly and efficiently. In the Alpha Theta Meditation program both EEG and GSR feedback training are utilized.

Galvanic Skin Response (GSR) biofeedback training teaches one to become totally aware of body functionings and states of relaxation. The Galvanic Skin Response device mirrors back to the student a signal that lets him know how deeply relaxed he is. This type of feedback training is invaluable to people who find it difficult to relax due to constant stress and tension.

Electroencephalogram (EEG) biofeedback training has taught many students to enter into the alpha levels of consciousness with two to three hours of training, thus, allowing them to remain at one level at a time. This type of EEG biofeedback training completely assures one that he is reaching and staying at the alpha level. Thus, EEG biofeedback training is an empirical tool used to hasten the otherwise slow meditative process.

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Many of us function at only one level of consciousness, our normal waking consciousness or rational consciousness — the Beta state. Yet there are many other potential forms of consciousness available to us that are entirely different. These highly creative and introspective states of consciousness — Alpha and Theta — must not be disregarded. It seems that stress and tension pull us away from these creative levels and thus few of us ever experience them. Artists, musicians, and writers are more aware of altered states of consciousness because it is at these levels that they are most creative and productive.

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INCORPORATED

1143 New Hampshire Avenue, N.W.
Washington, D.C. 20037

DR. CARL SCHLEICHER
President

Telephone No:
(202) 785-1238

THE MANKIND RESEARCH FOUNDATION

The Mankind Research Foundation (MRF) was established in 1973 to provide an organization for scientific development and application of humanistic psychology, biocommunication, biocybernetics, biophysics, psychophysiology, educational development, cancer research, mind-body development, and other activities which impact upon the health, education, and welfare of mankind.

The Mankind Research Foundation is an independent, non-profit corporation with tax-exempt status whose activities are made available to the public through the Mankind Research Centers (MRC). A descriptive announcement flyer is available which outlines the goals, objectives, and programs of the MRC.

As in the case of any organization, its status is determined by what it does. Therefore some representative programs in which MRF is currently involved are listed:

- (a) Use of Kirlian electrophotography as a diagnostic technique
- (b) Evaluation of cancer treatment and cancer diagnostic techniques
- (c) Research on biological substitutes for chemical pesticides to control harmful insects
- (d) Investigation of acupuncture as a preventive therapy technique
- (e) Research on the bioenergetic and biophysical effects of geodesic domes and those geometric forms known as pyramids
- (f) Applied research on educational development programs such as suggestological programs known as the Lozanov Learning System
- (g) Investigation of parasensory (ESP) phenomena and its application, if any, to benefit those who may be sensory-deprived, handicapped, and disabled.
- (h) Research on the effects of biofeedback and meditation techniques to develop better voluntary control over involuntary functions and to alleviate drug, alcohol, and smoking dependencies

- (i) Investigation of population (birth) control techniques such as fertility and ovulation timing instrumentation which are non-chemical and non-invasive methods.

MRF's principal resources are fundamentally three-fold:

- (a) The Foundation's consistently sound management and direction, as evidenced by its steady growth and independence.
- (b) Its impressive bank of valuable frontiers of science information and laboratory facilities.
- (c) Its collection of leading researchers and experimenters in the multi-disciplinary and interacting fields of human engineering and humanistic psychology which includes research involving the body, mind, and those forces and phenomena acting within and upon them.

Since the MRF is a non-profit organization, its funds and operating capital are derived from donations, contribution, and grants. All contributions to the Foundation are deductible and the Foundation has background material to substantiate the tax-deductibility of your contribution. The MRF is a public foundation granted tax-exemption under Section 501 (c) (3) of the Internal Revenue Code. Individuals, corporations, companies, associations, and other foundations are all eligible to support the work of the Mankind Research Foundation through tax-deductible gifts.

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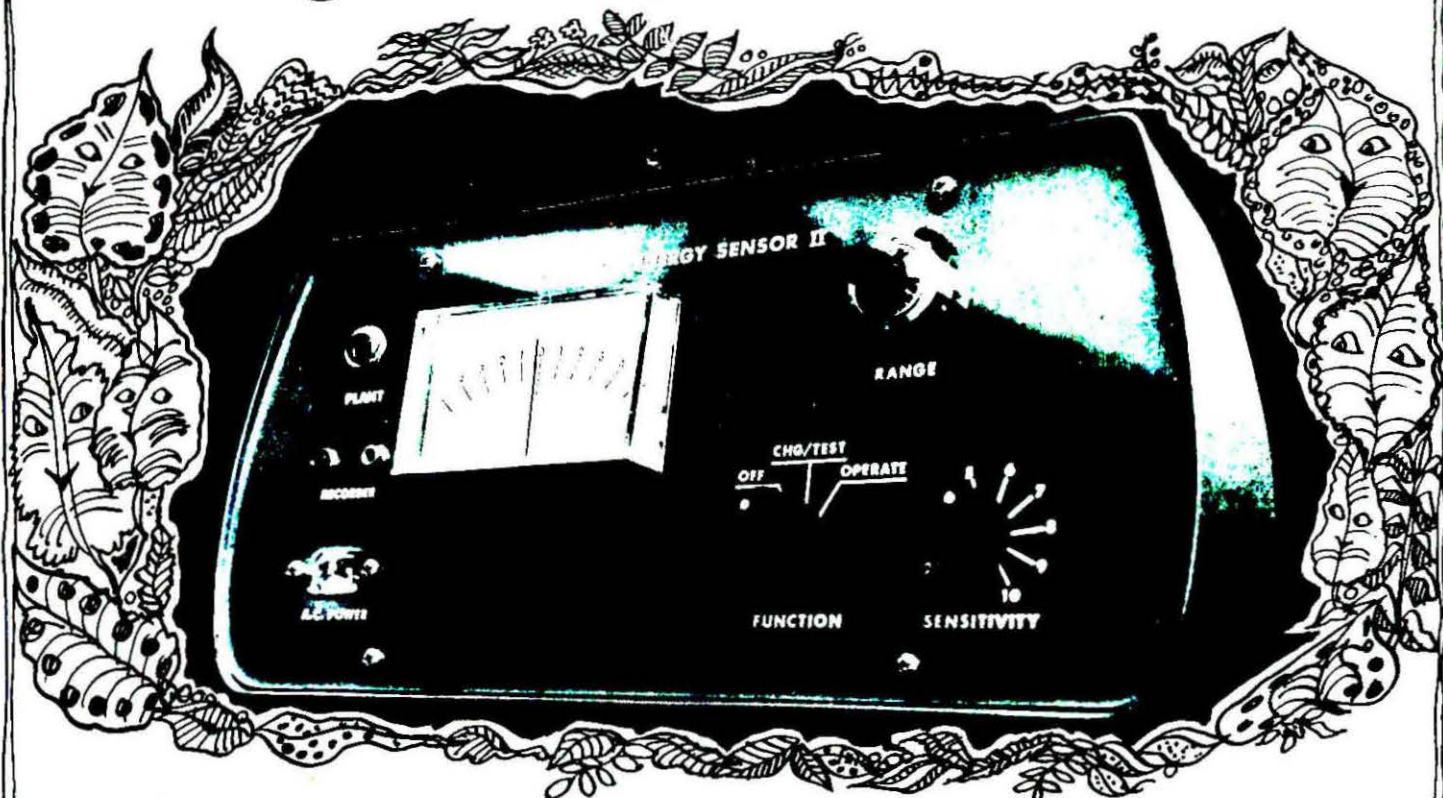
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2. LIGHT. Enough light may be introduced to keep the vanes of the Radiometer quivering on the verge of motion. A small amount of light lessens the energy necessary to send the Radiometer vanes into motion.
3. POINTING. The experimenter can point one finger, of either hand, directly at the dark side of one of the vanes. Concentrating energies through this finger toward the dark side of the vane often is an effective method of setting the vanes in motion.
4. CUPPING. The experimenter can cup his/her hands on either side of the Radiometer globe. Again, by concentrating energies from the hands to the vanes, polarization often results. This method has been tried with good effects. CAUTION: Since the radiometer is also a solar thermal receptor, the hands must be kept a sufficient distance away from the globe to avoid a heat bias.

Mental energies are difficult to employ successfully if the experimenter does not have adequate discipline of the mind. He/she must be able to project his/her energy in order to activate the Radiometer. Once this has been accomplished successfully a few times, the operator may wish to experiment with the Radiometer from a distance. Begin a few inches away, with care to avoid thermal influences, and gradually work your way back to greater distances. Some experimenters are able to make the vanes spin from most any distance away from the Radiometer, and reports have been noted of the long-distance telekinetic use of this instrument.

THE IDEA is to cause a rotation of the vanes through the use of spiritual, mental, or physical energy...without touching or thermally influencing the Radiometer.

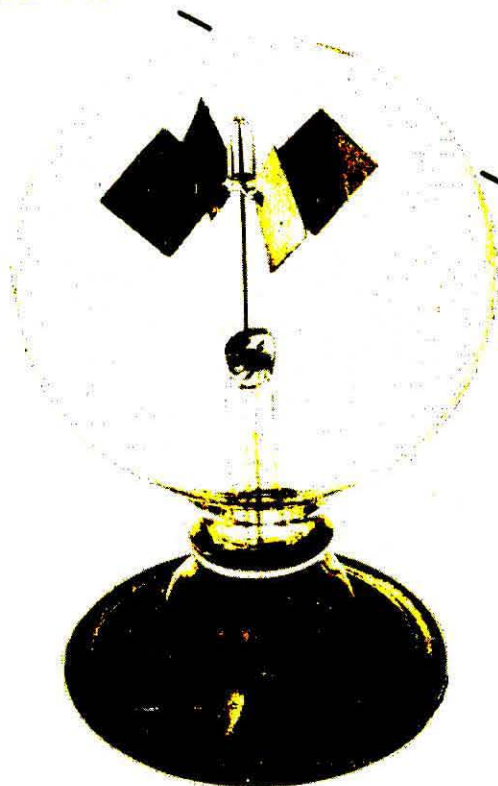
NOTE: Use of the Radiometer for psychokinetic or telekinetic experiments is not limited to the above-suggested procedures. It is hoped that the experimenter will explore his/her own ingenious adaptation for direct mind-object interactions. MRU desires to receive results of such experiences and hopes thereby to be informed of a "sensitive" who can match the psychokinetic feats of Uri Geller and the telekinetic achievements of Mrs. Olga Worrall.

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Models SP-7 and SP-9 have their sensing probes built into a hand-carried portfolio. A plain clothesman mixing with people in crowds can use either model to scan people for concealed weapons without the subjects being aware they are being scanned. Operator monitors output indications thru ordinary looking hearing aid.

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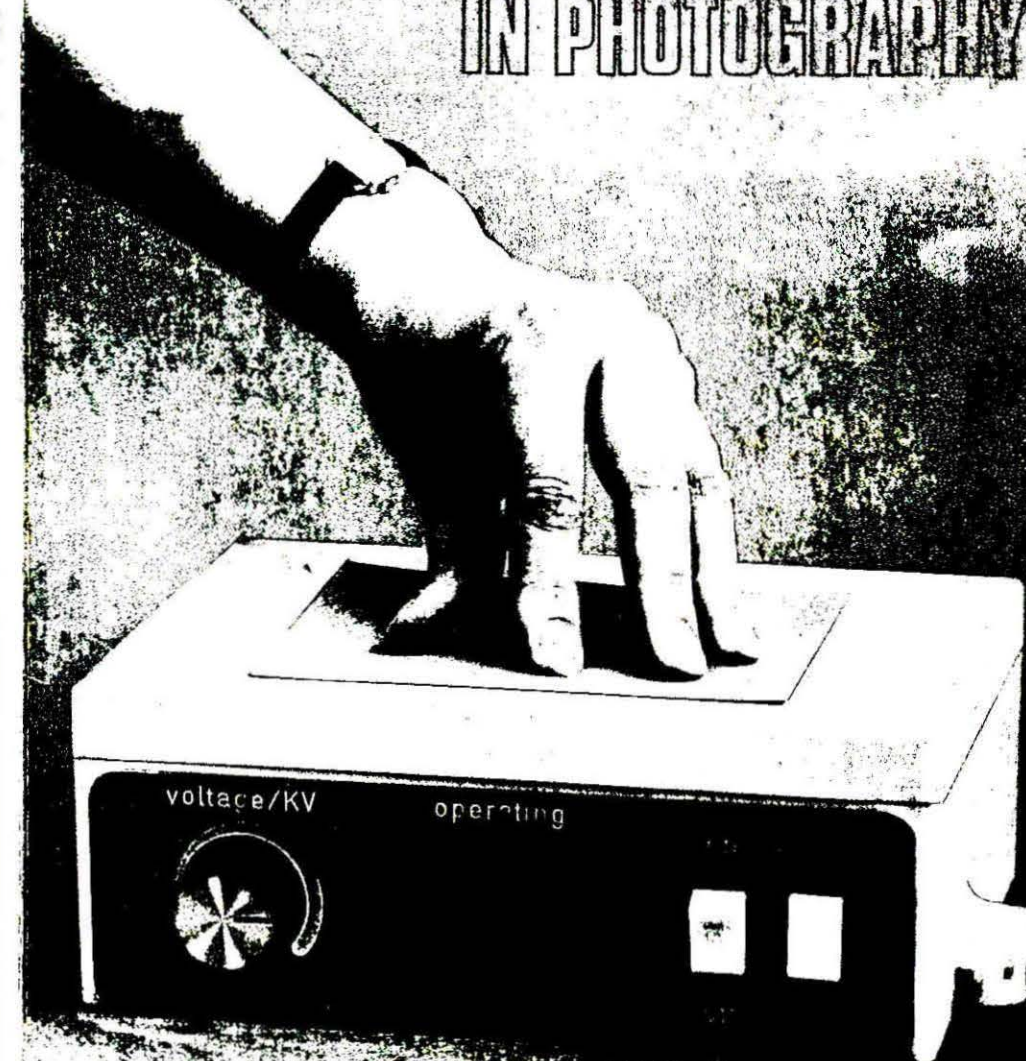
1. Screening of Letters to identify "letter-bombs" - may be used by postal, customs or police officials, or by embassy and business mailroom personnel. When used in accordance with our simple instructions, the MP-3 is 100% effective in detecting letterbombs of the types now in use.
2. Detecting Weapons Concealed in People's Clothing - AND DETERMINING BY INDICATION OF THE SIZE AND SHAPE THAT DETECTED METAL OBJECTS ARE, IN FACT, GUNS OR KNIVES! Device is non-invasive and is suitable for use by police and other law enforcement personnel for quick searches of citizens who are suspect but for whom there is no authority to touch, handle or search the suspects. Because no touching or handling are required, the MP-3 can be used by males to scan females, or by females to scan males - thus saving the time, trouble and expense of having to find matrons to search females, etc. The MP-3 is ideal for prison guard use, and for courtroom attendants for scanning potentially dangerous witnesses to prevent their bringing weapons into courtrooms. Also good for FBI and Secret Service agents to scan members of the public who are suspicious but who cannot be searched without cause.
3. Detecting Weapons, Ammunition, Bombs, Detonators, Clocks, etc. in parcels and luggage. The MP-3 responds to both ferrous and non-ferrous metals. Its specially designed, direction probe indicates, to an experienced user, the size, shape and density of the metal. If a pencil is attached to the MP-3, an actual pictorial sketch of the contents (metal contents) of a parcel can be drawn as the parcel is scanned. Works thru non-metal and metal-framed luggage and purses, but not thru metal-skin luggage.
4. Detecting Concealed Non-Metal Contraband, such as Drugs, etc - Metal detection uses Inductive sensing. A second, alternate mode is provided with capacitive sensing, which permits the detection of the presence of human skin 1/8" to 1/4" below the outer clothing. In this mode, reliable indications are obtained of padded bras (falsies), of belts, pads or compartmented underwear which may conceal drugs, diamonds, etc. Also, indication is given when a shoplifter leaves a store's dressing room wearing two or more dresses, blouses or suits. The device is ideal, in this mode, for quick-scanning by store detectives, customs and narcotics agents (of either sex) for concealed non-metals. Those found free of such indications may be released - those with positive indications may then be examined further by male or female searchers.
5. Detecting Metallic Contraband - Customs agents and store detectives will be able to scan quickly in one sweep, for both concealed non-metal contraband, and also for concealed metal contraband. Watches, transistor radios, jewelry (any metal - and size) will give indications whether sewn into the lining of a coat, or in special pockets and compartments, etc - and the indications - good thru up to 4" thicknesses, will give size, shape and density of each object.

EVERY MP-3 is shipped tested, with battery, ready-to-use. Complete with a detailed applications and operating instruction manual. Users are invited to contact the manufacturer concerning any additional information, uses, or training.

SP-7 and SP-9 APPLICATION NOTES: These devices are for screening, and do NOT give shape or outline of objects, nor are they suited for letterbomb detection. These models sense at greater distances, and are disguised in appearance, for use by plainclothesmen mixing in crowds. When positive indications are obtained on these units, it is wise to either search the suspect, or to scan him with the MP-3 unit above, to determine if the metal objects detected are guns or other weapons.

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NEWEST DEVELOPMENTS IN PHOTOGRAPHY



KIRLIAN

AURAPHOTOGRAPHY

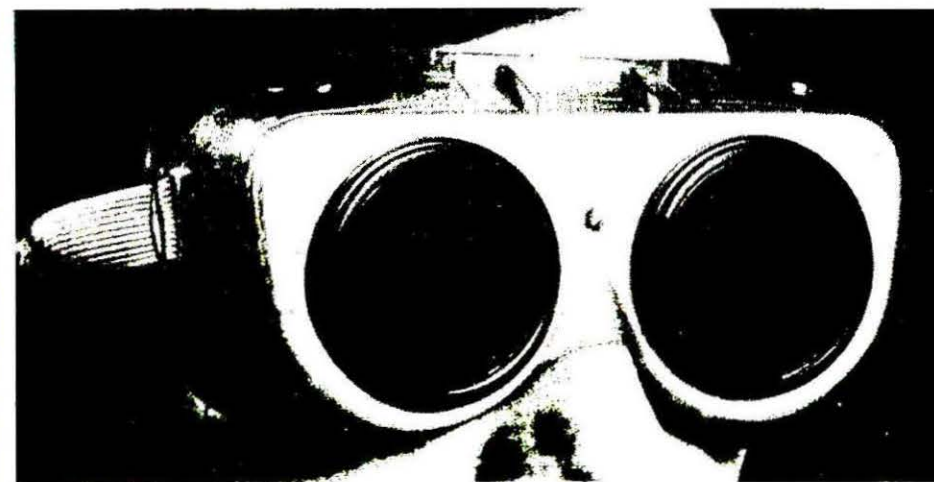
**THE NEWEST RAGE IN RUSSIA
 AND AMERICA NOW IN EUROPE**

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MRU has been a leader in the field of Kirlian electro-photography and has been the first organization to obtain a government grant to explore the use of Kirlian electro-photography as a diagnostic technique. MRU has also been the first to produce (in 1972) the first commercially available Kirlian/Tesla power supplies and Kirlian how-to-do-it manual. These products have since been improved and up-dated to keep MRU in the forefront of a field which has now become a competitive commercial venture. However, MRU's proceeds are primarily used to support further research and activities in the frontiers of science arena.

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NOTICE: All products listed are intended for experimental purposes only.



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| <input type="checkbox"/> Deluxe Kirlian/Tesla Unit | \$150.00 | <input type="checkbox"/> Frontiers of Science Newsletter | \$15 annually |

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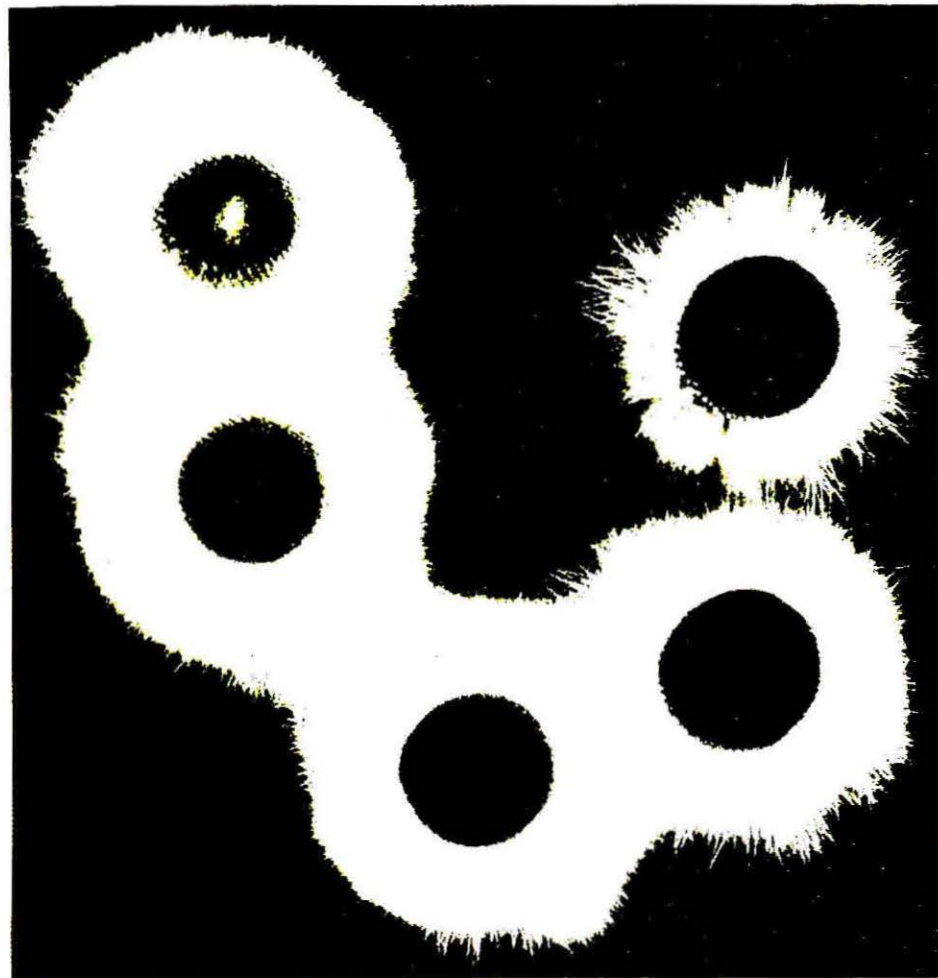
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is pleased to announce the availability of its new deluxe electrophotography unit recently developed by MRU's European representatives and now available in the U.S.A.

"A spectacular panorama of colours and lights, blue, gold, green, violet, glittering, sparkling! An unseen world opens itself up before our eyes. Gleaming labyrinths, flashing, lighting up. Some sparkles are standing still, others wander on a dark background. Hovering over this fantastic galaxies of ghostly lights clear, manycoloured flames and dark clouds. It is indescribable! Electric flames glare up, then crowns flash in blue and orange colours. Large canals of shining violet, flaming splashes of light. Some sparks gleam constantly, others come and go like wandering stars. It is extremely fascinating, a mysterious game, a world of fire!"



In these words the authoritative Presidium of the Academy of Sciences in Russia describes the phenomena observed in Kirlian-auraphotography. A discovery of the Russian technician and photographer Semyon Kirlian, it has been a scientific rage in Russia and America for some years, spreading like oil and now coming within the reach of scientists and amateur-photographers in Europe. New applications are being discovered daily.

Kirlian-photography can be used for early diagnosis of illness. Dr. S. M. Pavlenko, Moscow.

Kirlian-photography, a blessing for agriculture. Dr. P. F. Varukoi, Kuban.

Further study is imperative, Kirlian-photography undoubtedly serves scientific interests. Prof. Dr. A. V. Topchiyeva, Moscow.

Medicine, dentistry, criminology and geology all are fields, where Kirlian-photography will most certainly be useful. Dr. L. A. Tumerman.

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It is impossible to mention all superlatives used in Russian and American scientific circles on Kirlian-auraphotography.

But what could Kirlian-auraphotography mean to the amateur-photographer and other hobbyists, wanting to experiment for themselves?

Read what M. H. J. Th. van der Veer has got to say about this; (together with the Dutch photographer J. Dulfer, he developed and introduced Kirlian-auraphotography in the Netherlands and other European countries):

"Kirlian-auraphotography is a new technique in full development, with an enormous amount of applications. To make this technique available for the non-scientist, it was necessary to develop an apparatus giving brilliant results, the price of it being not higher than the one of a middleclass photcamera, because - and this is my personal conviction - this new development should not be restricted to the use of scientists only. Kirlian-auraphotographies are also a new form of creative expression. Everybody who has seen the photographs of the aura of fingertips in this folder will recognize that since the discovery of the camera obscura and the colourfilm no greater step has been taken in the photosector as now with auraphotography. Aura-photography can be used in many other than purely creative ways. Illness, fatigue, emotions, stimulants, tranquillizers, all kinds of doping show their influence on the pattern of the spectre and the intensity of the colours. Same with alcohol - in the near future a simple auraphotography might replace the usual alcoholtests. Doping in sports could be shown with Kirlian-photography, and the physical condition of the sportsman as well.

The link with psychic phenomena is evident. Evidence has been found for the aura of men, of which psychics have told us thousands of years, and scientific explanations might be found for magnetism, acupuncture and many other things."



M. H. J. Th. van der Veer

to a size of 13x18 cm. We are proud to be able to offer this newly developed and perfected unit. Any type of film, black and white as well as color, can be used with this apparatus, working with a maximum of 35,000 v. Fascinating

For some years Van der Veer has been in contact with Russian and American research centers, the most important of which is the Mankind Research Foundation in Washington, working, among other things, on Kirlian electrophotography. The apparatuses developed there and in Russia formed the base from which he started to develop his own apparatus.



SAFE

THE SOCIETY FOR THE APPLICATION OF FREE ENERGY

1143 New Hampshire Avenue, N. W.
Washington, D. C. 20037
(202) 785-1237

~~1325 1/2 Wisconsin Ave., N.W.
Washington, D. C. 20007~~

The Society for the Application of Free Energy (SAFE) was formed in the Fall of 1972, and was incorporated in the District of Columbia as a non-profit educational and scientific organization.

The purpose and objectives of SAFE are to study, research, use and seek practical applications of the disciplines of dowsing, radionics, radiesthesia, and healing to meeting and serving the needs of mankind.

The founders of SAFE have recognized the need for an organization which can now focus on, and develop the "life energy" bioscience areas, and thus transfer any potential benefits derived to various human problem areas. It has been noted that this can best be achieved in a scientific, impartial, creative, and open-minded atmosphere.

Although the initial SAFE Chapter was set up in the nation's Capitol, Washington, D. C., SAFE is organized to be a truly national organization and responsive to the needs of all of its members and associates. It is strongly desired to set up SAFE chapters in other areas, and full support will be given to sponsors of these new chapters. Current plans call for a national convention to be held in 1974 to emphasize these bioscience areas. This convention will be the first of its kind to be held in North America, and is a pioneering effort, as are all SAFE activities.

The by-laws and articles of SAFE have been written to ensure that the Society's actions will be guided by the highest standards of morality, honesty, and integrity. All SAFE activities are, and shall be, carried out within the framework of established law; no encouragement or support shall be given to those who depart from established legal or moral standards. Equal rights are guaranteed to members of all geographic areas of the North American continent.

Some special areas of SAFE interest include:

DOWSING - Use as an exploratory tool in natural resource development and in archaeology.

RADIONICS - Use in insect control to neutralize harmful pests through non-chemical means and to enhance crop growth and yield.

HEALING - Study of those with this paranormal ability and investigating the L-fields ("life energy fields", as denoted by Dr. H. S. Burr and E. W. Russell) so that this human potential can be better understood and applied.

RADIESTHESIA - Investigation of human sensitivity to the vibratory effects created by living organisms as well as those effects inherent in inanimate objects.

Annual membership in SAFE can be obtained by sending \$10.00, payable to SAFE, to Mrs. Edith Serbin at 1036 Ruatan Street, Silver Spring, Maryland 20903.

Details on setting up SAFE Chapters, research projects, etc., can be received by writing to Ms. Linda Fruehwald, ~~1325 1/2 Wisconsin Avenue,~~ N. W., Washington, D. C. 20007.

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monograph by Zbigniew William Wolkowski, Doctor of Science,
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Christopher Bird).
- #11 FOREIGN LANGUAGE TEACHING IN BULGARIA, monograph by
W. Jane Bancroft, Ph.D., Scarborough College, University
of Toronto, Canada.
- #12 THE SANDY SPRING EXPERIMENT: APPLYING RELAXATION TECHNIQUES
TO EDUCATION, monograph by Peter Kline, Sandy Spring Friends
School, Sandy Spring, Maryland, U.S.A.
- #13 SUGGESTOLOGY AND LANGUAGE TEACHING, monograph by Sayo
Yotsukura, Ph.D., President of Global University, Washington, D.C.
- #14 REHABILITATION WITH A FUTURE ORIENTATION, reprint from the
Journal of Rehabilitation, March-April 1975, discussing
rehabilitative impact of Suggestology and other mind science
programs.
- SUGGESTOLOGY AND SUGGESTOPAEDIA, an authoritative journal
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Please inquire about the availability of other suggestopedic learning services available through MRF and its associates by checking the appropriate boxes:

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| <input type="checkbox"/> Book order, <u>Suggestology and Suggestopedia</u> , by Dr. Georgi Lozanov | <input type="checkbox"/> Licensing information for Lozanov Method |
| <input type="checkbox"/> Cassette tape and film of Suggestology Symposium, May 9-10, 1975 | <input type="checkbox"/> Instructor training opportunities |
| <input type="checkbox"/> Foreign language courses (specify language desired _____) | <input type="checkbox"/> Business development plan for Lozanov Learning |
| <input type="checkbox"/> Weekend "Creative Learning" Seminar | <input type="checkbox"/> Research opportunities in suggestopedic learning |
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WHAT IS SUGGESTOLOGY?

Suggestology is a relaxed process of learning based on the psychology of suggestion. This system of learning is also referred to as the Lozanov Method—named for the Bulgarian psychiatrist Dr. Georgi Lozanov, who devised it. It allows students to learn in one month with four lessons per day the basis of a foreign language on a conversational level, comprising approximately 2000 vocabulary words and grammatical syntax. Students who wish to further augment their knowledge of the foreign language are able to double and triple the results in the second and third months. Under certain experimental conditions, it has been possible to increase the vocabulary learning rate up to 1000 words per day. However, under normal classroom conditions the Lozanov Method enables learning of 200-300 new words in a given day, which are reinforced by a day and a half of conversational practice and grammar. The Lozanov Method utilizes mental relaxation, a special type of psychodrama that provides the student with a freeing-stimulating role, as well as other art forms such as special background music. As a result, information bypasses emotional blockage while going directly into the long-term memory area of the brain. The method makes learning for students and adults not only faster and more enjoyable but more reliable, since research shows memory retention to be 95% over long periods of time.

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February 2 to March 12, 1976

Course EN/S-1 : English for native Spanish-speaking persons. This course is especially designed for members of the Hispanic community who know little or no English.
.....\$600 (\$5.00 per hour)

Course LO/T-1 : (Lozanov Method Instructor Training) : This is intended for teachers with a bilingual background who wish to teach foreign languages using the Lozanov Learning Method. All candidates are subject to pre-enrollment screening.
.....\$1200 (10.00 per hour)

February 16 to March 26, 1976

Course SP/E-1 : Spanish\$600 (\$5.00 per hour)

Course FR/E-1 : French\$600 (\$5.00 per hour)

Course FA/E-1 : Farsi - This course is intended for American businessmen, engineers, and instructors who are required to communicate in Farsi with Iranians (Persians).
.....\$900 (\$7.50 per hour)

The costs per course are considerably lower than other available, competing "high intensity" language programs. The pricing given also represents special introductory rates to enable those who are particularly motivated to learn languages through the Lozanov Method to afford the cost of the training. In addition to considerable savings in time and money, each enrollee will benefit by noting a reduction in stress while learning and long term retention of material learned -- the key measure of the effectiveness of any learning system. Budget lodgings are available on site for out-of-town students.

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() LO/T-1 INSTRUCTOR	\$1,200	Street _____
() SP/E-1 SPANISH	\$600	City _____ State _____ Zip _____
() FR/E-1 FRENCH	\$600	
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This method is currently being used by the Government of Canada and at prestigious learning centers in the USSR, Austria, Bulgaria and other European countries to train government employees, private citizens and students in achieving rapid fluency in foreign languages. Children are also being extensively trained in this easy-to-learn method.

This innovative approach to learning requires only 3-4 hours of classroom time 5 days a week for up to 30 days. No homework is required -- only your daily attendance and willingness to relax, follow instructions and enjoy the fun of learning with Suggestopedia.

Thousands of students from diverse backgrounds and professions have already learned foreign languages using the Lozanov Method. The results, as stated by Dr. George Lozanov, have been over 98.5% effective in respect to retention of material learned. The Suggestology approach has been tried and tested for over twenty years by Dr. Lozanov and his associates. His institute has received over 10,000 applications for enrollment in Suggestology courses, however only those who were sincere and dedicated to learning were accepted by Dr. Lozanov and his staff. The same high standards are being applied at our institute which bears his name. Your acceptance will be based upon your sincere desire to learn.

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Suggestology also known as Suggestopedia, is in effect a method of learning full of fun and enjoyment, and is conducted within a relaxed environment free of mental blocks or barriers. Lozanov Learning, Suggestology, and Suggestopedia are trademarks of the Lozanov Learning Institute.

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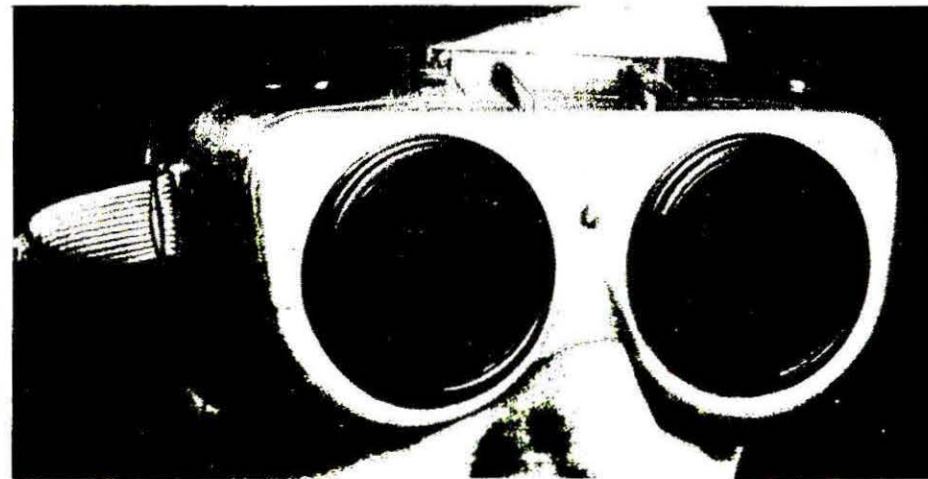
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Your participation will help us explore these areas and share the results. MRU's Frontiers of Science monthly newsletter publishes the more significant results of this research and your subscription is therefore recommended.

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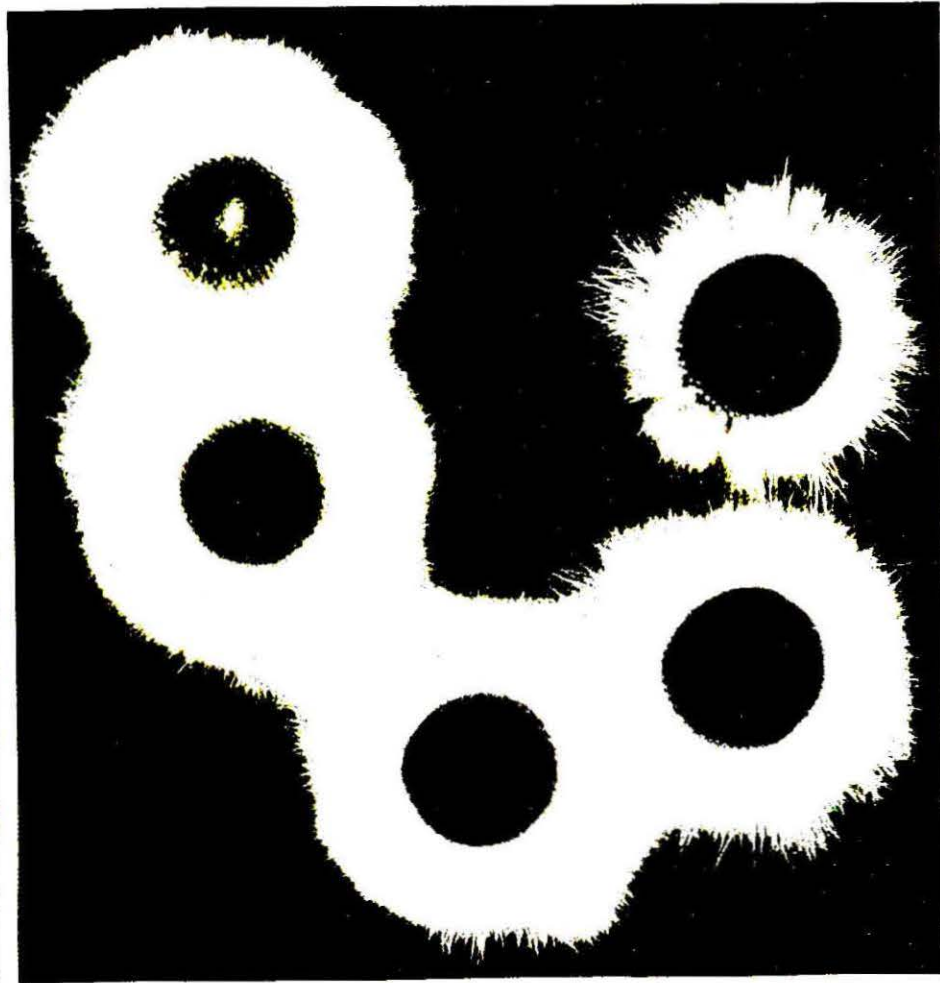
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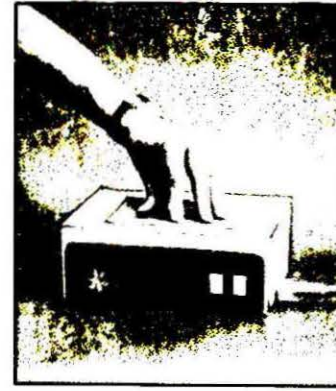
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Kirlian-photography can be used in metallurgy for the detection of minuscule faults, invisible to the naked eye. Prof. Dr. Thelma Moss, one of the foremost scientists in Kirlian-photography. Kirlian-photography is able to tell us many things about organisms and their direct environment. Dr. Stanley Krippner and assistant Dr. Sally Ann Drucker.

It is impossible to mention all superlatives used in Russian and American scientific circles on Kirlian-auraphotography.

But what could Kirlian-auraphotography mean to the amateur-photographer and other hobbyists, wanting to experiment for themselves?

Read what M. H. J. Th. van der Veer has got to say about this; (together with the Dutch photographer J. Dulfer, he developed and introduced Kirlian-auraphotography in the Netherlands and other European countries):

"Kirlian-auraphotography is a new technique in full development, with an enormous amount of applications. To make this technique available for the non-scientist, it was necessary to develop an apparatus giving brilliant results, the price of it being not higher than the one of a middleclass photocamera, because – and this is my personal conviction – this new development should not be restricted to the use of scientists only. Kirlian-auraphotographies are also a new form of creative expression. Everybody who has seen the photographs of the aura of fingertips in this folder will recognize that since the discovery of the camera obscura and the colourfilm no greater step has been taken in the photosector as now with auraphotography. Aura-photography can be used in many other than purely creative ways. Illness, fatigue, emotions, stimulants, tranquilizers, all kinds of doping show their influence on the pattern of the spectre and the intensity of the colours. Same with alcohol – in the near future a simple auraphotography might replace the usual alcoholtests. Doping in sports could be shown with Kirlian-photography, and the physical condition of the sportsman as well.

The link with psychic phenomena is evident. Evidence has been found for the aura of men, of which psychics have told us thousands of years, and scientific explanations might be found for magnetism, acupuncture and many other things."



M. H. J. Th. van der Veer

For some years Van der Veer has been in contact with Russian and American research centers, the most important of which is the Mankind Research Foundation in Washington, working, among other things, on Kirlian electrophotography. The apparatuses developed there and in Russia formed the base from which he started to develop his own apparatus, together with an expert team of assistants in the Foundation Mankind Research Europe, with striking results. They were the first to be able to photograph larger objects than the fingertips, coins, etc., that were photographed in Russia and America. With their new apparatus electrophotographs can be made up

to a size of 13x18 cm. We are proud to be able to offer this newly developed and perfected unit. Any type of film, black and white as well as color, can be used with this apparatus, working with a maximum of 35,000 v. Fascinating results can be obtained even on the simplest printing paper and no other expensive aids are necessary for the use of this apparatus, ready for use on 110 v. and needing no more than a simple lamp about 28 watts per hour. The introduction price of the Deluxe Unit is \$150, tax included, and prepaid. Guaranteed for one year.

Photos: Mankind Research Europe